

Manufacturers' Shipments, Inventories, and Orders

JANUARY 1980

U.S. Department of Commerce BUREAU OF THE CENSUS

M3-1(80)-1 For Release 3:30 P.M. Tuesday, March 4, 1980

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in January rose \$5.4 billion or 3.6 percent to \$155.1 billion the Department of Commerce, Bureau of the Census reported today. This is the largest 1-month increase since the 3.9 percent rise recorded in October 1978.

Orders for manufacturers' durable goods were up \$3.7 billion or 4.8 percent to \$81.5 billion. The most significant increases were in the primary metals category. New orders for nonferrous metals were up \$1.1 billion or 20.3 percent, while steel orders increased \$1.0 billion or 19.1 percent. Companies reported that significant price increases in steel, aluminum, copper, and precious metals caused much of the increases. The steel industry whose orders were quite volatile in 1979, had reported declines of 3.3 percent and 8.9 percent in November and December. New orders for machinery were also up significantly in January. Both the electrical and nonelectrical sectors reported \$0.8 billion increases.

A sizable decline in new orders occurred in the transportation equipment industries, down \$1.0 billion or 6.0 percent to \$16.3 billion. The drop resulted mostly from a decline in aircraft orders of 19.9 percent. December orders for that industry were up 21 percent from the November level. Without the decline in the transportation industry, new orders for durable goods were up 7.9 percent.

New orders for nondefense capital goods were up \$0.4 billion or 1.6 percent to \$23.2 billion. The large increases in orders for machinery and other transportation equipment were partially offset by the decline in commercial aircraft orders. Defense capital goods orders dropped 5.2 percent, revised from the 2.8 percent decline reported earlier. New orders for the household durable goods industries as a group were up 9.1 percent with virtually all industries contributing to the rise.

Shipments of manufactured goods rose \$5.0 billion or 3.4 percent in January to \$151.3 billion. In the durable goods industries increases were widespread. Primary metals shipments

were up 7.2 percent, mostly attributable to a \$0.6 |billion or 11.9 percent increase in the nonferrous industries. Transportation was up 4.0 percent. The automotive industry had its first significant increase in shipments since last May.

Shipments by the nondurable goods industries were up \$1.5 billion or 2.1 percent to \$73.8 billion. Increases in paper, petroleum, rubber and plastics, and leather were partially offset by declines in the food and apparel industries.

The backlog of manufacturers' orders in January rose \$3.8 billion or 1.4 percent to \$282.6 billion. The largest increases occurred in machinery, up \$1.7 billion or 1.8 percent; aircraft, up \$1.4 billion or 1.8 percent; and primary metals, up \$0.9 billion or 3.2 percent. The only declines came from the automotive, fabricated metal products, and shipbuilding industries.

The book value of manufacturers' inventories rose \$4.2 billion or 1.8 percent to \$232.0 billion, the largest 1-month increase since December 1974. The largest increases in the durable goods industries were reported by producers of non-electrical machinery, up \$0.7 billion; aircraft, up \$0.6 billion; and electrical machinery, up \$0.4 billion Inventories of non-durable goods manufacturers rose \$1.8 billion or 2.3 percent to \$78.3 billion. The inventory to shipments ratio for January dropped to 1.53, the lowest it has been since last July when it also stood at 1.53.

The figures for the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear in the report to be published for next month. Periodically all data are adjusted to benchmark levels as discussed later in the section Description of Survey. The advance report on durable foods for February is scheduled for release on March 21, 1980 and the full report is scheduled for release on April 1, 1980.

DEPOSITORY

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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Table 1.--VALUE OF MANIFACTURENS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATECORIES, AND SUPPLEMENTARY SERIES

						1					Fi,														
	ual		1978		1,496,573	1,307,890	789,416	798,057	637,227	515,869	152,189		114,547	203,025	130,079	626,934	51,453 233,405 200,895 32,512		3,690	120,390	47,455	96,212	9,562	137,119	28,274
	Annual		1979		1,692,001	1,497,540	893,021	887,777	722,730	804,224	170,291		125,723	236,754	148,806	730,782	55,938 267,807 232,315 35,492		48,185	140,122	58,001	109,463	10,046	13,156	31,813
		ago)	0ct. 1978		135,514	117,656	71,615	73,238	57,818	62,276	13,797		11,128	18,130	11,924	55,329	4,976 20,677 17,944 2,733		4,176	10,918	4,321	8,599	784	12,312	2,609
		(a year ag	Nov. 1978		131,499	113,931	69,692	70,662	56,351	60,837	13,304		10,415	17,655	11,505	54,169	4,586 20,434 17,733 2,702		3,855	10,467	4,290	8,489	969	11,686	2,426
The same of the sa		4 months	Dec. 1978		126,980	111,303	68,393	68,389	55,785	58,591	12,608		8,568	18,889	10,790	53,684	4,124 21,656 18,634 3,023		3,389	10,397	4,103	8,399	724	12,495	2,446
	ıly	Last	Jan. 1979		124,147	107,625	65,232	65,767	52,735	58,380	12,497		8,589	16,801	9,482	53,797	3,801 19,370 16,793 2,577		3,147	10,350	4,138	7,933	688	1,1120	2,326
A PONTE A LA	Monthly		0ct. 1979	GOODS, TOTAL	150,754	133,933	80,447	78,660	63,949	72,094	16,498	IES	12,189 26,830	20,714	13,637	64,078	5,485 23,416 20,355 3,061		4,552	12,073	5,131	9,683	806	13,911	2,799
		nonths	Nov. 1979	NONDURABLE GOO	143,286	127,976	74,937	72,706	990,09	70,580	14,871	AND SUPPLEMENTAL SERIES	11,237	19,467	12,543	62,216	4,957 22,434 19,344 3,090	USTRIES	4,132	11,203	608,5	9,031	714	12,527	2,279
		Last 4	Dec., 1979 ^F	AND	139,658	125,698	73,390	70,347	59,377	118,931	14,013	AND SUPPLE	9,766	21,743	11,423	61,118	4,384 24,205 20,804 3,401	PS AND INDUSTRIES	3,576	10,699	4,750	8,607	657	13,742	2,502
			Jan.,	NG, DURABLE	139,232	125,471	72,863	70,114	58,379	69,118	14,484	CATEGORIES	9,886	19,105	11,280	64,320	4,385 21,667 18,884 2,783	INDUSTRY GROUPS	3,863	11,873	5,179	8,593	725	12,845	2,627
		i. i	1979	MANUFACTURING,	415,374	366,641	220,310	219,323	177,984	196,051	42,326	MARKET C	30,844	57,428	36,661	179,175	13,801 65,167 55,385 8,782	IND	12,046	34,271	14,134	27,073	2,492	3,326	7,851 2,285
	Quarterly	111	1979	ALL »	427,463	380,210	225,224	222,013	181,710	205,450	43,514		32,041	50,724	37,726	185,855	14,035 68,115 59,412 8,703		12,193	35,228	14,433	27,158	2,444	3,835	8,292
		7.7	1979		436,076	390,893	228,003	223,345	184,246	212,731	43,757		32,833	51,455	38,554	190,707	14,514 69,236 59,916 9,320		12,569	35,700	15,210	27,742	2,498	3,231	7,937
		Oct.	1979		145,551	130,056	76,711	75,570	62,006	186,981	14,705	-11	10,945	20,365	13,068	63,429	4,966 23,100 20,095 3,005		4,246	12,088	5,081	9,310	826	13,905	2,841
Danging Lyrangonae	13	Nov.	1979		164,161	129,199	75,342	73,657	902,09	70,484	14,636		10,765	20,002	12,843	63,352	4,812 22,734 19,598 3,136		4,190	11,825	4,994	9,221	863	13,078	2,391
100	Monthly	Dec.	1979°		146,384	131,638	75,950	74,118	61,534	72,266	14,416		11,123	21,089	12,643	63,926	4,736 23,602 20,223 3,179		4,133	11,787	5,135	9,211	808	13,662	2,705
		Jan	1980 ^p		151,336	136,005	79,680	77,582	66,139	73,754	15,541		11,253	21,340	13,614	106,79	4,916 24,088 20,928 3,160		4,581	12,633	5,748	9,541	886	13,968 1,186 1,140	2,795
		Industry			All manufacturing industries:	portation	filled orders	Durable goods industries, total.	Durable goods with unfilled orders	Nondurable goods industries,	Nondurable goods with unfilled orders		Market categories: Home goods and apparel Consumer staples	Automotive equipment		Other materials and supplies and intermediate products	Supplementary series: 1 Howsehol durable goods indus- tries. Captal goods industree. Captal goods industree. Defense		Durable goods industries: Stone, clay, and glass products	Primary metals, total	metals	Pabricated metal prod., total,	drums	Machinery, except electrical, total. Engines and turbines. Fare machinery and equipment Construction making	
		310							95	30			ally sur		01 10				32	331		341		35.1	354

Table 1. --VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES --Continued

(Millions of dollars)

		100	1	Seasonal	Seasonally adjusted	THE REAL PROPERTY.						With	Without seasonal adjustment	al adjustr	nent1	-		
			Mon	Monthly			Quarterly					Monthly	ily				Annual	a1
SIC	Industry	Ten	Dog	N N	+00	11/1	111	:		Last 4 m	months		Last 4	4 months	months (a year ago)	go)		
		1980 ^p	1979 ^r	1979	1979	1979	1979	1979	Jan. 1980P	Dec., 1979 ^r	Nov. 1979	0ct. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Oct. 1978	1979	1978
								INDUSTRY	GROUPS,	AND INDUSTRIES	ESContinued	pen						
36	Electrical machinery, total Electrical transmission and	10,088	9,746	6,495	9,375	28,616	27,685	27,300	9,204	9,720	9,614	9,790	8,128	8,695	8,699	8,967	110,713	98,661
	distribution equipment and industrial apparatus		1,592	1,712	1,683	4,987	4,947	3,006	1,624	1,534	1,696	1,720	1,559	1,478	1,506	1,559	19,915	17,632
365	Radio and TV		1,159	1,108	1,127	3,394	3,208	3,162	4,98	1,064	1,043	1,162	583	924	937	1,065	12,814	7,525
366	Communication equipment	2,801	3,087	2,825	2,792	8,704	8,088	7,646	2,596	3,183	2,797	2,769	2,281	2,593	2,423	2,385	32,143	27,436
37	Transportation equipment,	15,331	14,746	14,942	15,495	45,183	47,253	48,733	13,761	13,960	15,310	16,821	16,522	15,677	17,568	17,858	194,461	188,883
372,6	Alreraft, missiles, and	9,3/3	9,013	7,434	10,721	26,692	30, 209	33,210	679°9	8,003	9,838	11,338	11,748	10,566	12,532	12,98/	129,364	132,207
3731	Shipbuilding and military	3,806	3,790	3,648	3,473	116,01	11,730	10,539	3,115	670,4	3,684	3,607	3,210	3,558	3,404	3,136	43,804	37,542
3795	tank vehicles	912	845	754	762	2,361	2,177	2,072	196	946	763	829	602	751	969	306	8,693	7,872
38 381-4 386	Instruments and related products, total	3,381	3,247 1,953	3,205	3,089 1,768 1,118	9,541 5,560 3,375	9,154 5,301 3,222	8,864 5,164 3,089	3,064 1,876 1,024	3,248 1,928 1,151	3,304	3,242 1,824 1,181	2,509	2,741	2,841 1,583 1,070	2,857	36,253 21,082 12,757	31,560 18,140 11,245
32 65	All other durable goods industries	8,059	7,586	7,701	8,062	23,349	22,878	22,357	6,911	6,795	7,585	8,588	6,058	6,595	7,057	7,551	90,885	81,334
20	Nondurable goods industries:				3													
3-6,	total. Neat products. Beverages. Fats and oils. All other foods.	19,953 4,955 2,583 1,623 8,004	20,729 5,286 2,426 1,611 8,631	20,273 5,215 2,402 1,623 8,270	20,113 5,109 2,328 1,670 8,319	61,115 15,610 7,156 4,904 25,220	59,231 14,895 6,966 5,068 23,989	57,486 15,524 6,788 4,611 22,607	18,872 4,885 2,146 1,597 7,515	20,352 5,292 2,215 1,558 8,554	20,518 5,163 2,438 1,666 8,452	20,883 5,262 2,450 1,667 8,793	17,507 4,990 1,794 1,542 6,778	18,473 5,211 1,979 1,529 7,283	18,547 5,092 2,047 1,481 7,396	18,981 5,201 2,141 1,504 7,614	234,828 62,002 27,659 19,322 93,878	211,921 57,087 24,710 16,763 84,934
21 22	Tobacco products	1,051	1,027	1,055	1,055	3,137	3,212	2,834	3,760	1,052	1,078	1,097	3,519	3,491	1,014	1,043	12,173	10,941
26 261-3 265 264	Paper and allied products, total	6,147 2,784 1,401 1,962	5,492 2,623 1,214 1,655	5,585 2,607 1,240 1,738	5,641 2,598 1,257 1,786	16,718 7,828 3,711 5,179	17,016 7,692 3,650 5,674	16,504 7,516 3,623 5,365	5,833 2,668 1,317	5,156 2,488 1,110 1,558	5,540 2,587 1,229 1,724	5,745 2,685 1,325 1,735	4,737 2,123 1,110 1,504	4,573 2,085 1,037 1,451	5,061 2,201 1,126 1,734	5,157 2,223 1,205 1,729	66,033 30,165 14,557 21,311	57,654 25,343 13,091 19,220
28	Chemicals and allied products,	13,996	13,710	13,159	12,864	39,733	37,967	36,548	12,849	12,533	12,515	12,759	10,782	10,425	10,435	10,704	149,181	126,445
283,4	except pigments	4,821	3,761	4,687	4,454	13,739	13,372	12,687	4,590	4,331	4,425	4,312	3,777	3,671	3,535	3,605	51,793	42,415
29	Petroleum and coal products	13,773	13,279	12,803	12,419	38,501	35,143	31,246	13,662	13,489	12,779	12,302	9,252	994'6	9,074	8,899	134,041	103,562
23	n.e.c.	94,076	3,589	3,618	3,774	10,981	11,242	11,148	3,698	3,279	3,532	3,947	3,337	3,021	3,461	3,642	44,742	39,930
31	All other nondurable goods industries	10,610	10,515	10,030	10,076	30,621	29,703	28,528	9,453	9,664	10,559	11,060	8,255	8,204	9,462	9,859	116,234	104,107
Pprel	Preliminary, rRevised,																	

'Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the pariod and are not adjusted for trading-day or standar-month variations.

The supplementary servers are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture: Kitchen articles and pottery; cutlery, handtools, and misceilaneus policy household appliances; radio and TV; ophthalmic goods, watches, and clocks; and misceilaneus

personal goods.

Personal goods and an extended from machinery and equipment and machinery feedlading household appliances, radio and TV and electronic components), and the machinery except electrical (excluding farm machinery and equipment and machinery lead already and equipment and machinery excluding household appliances, radio and TV and electronic components), and ordnance.

Remoters products—Machinery, except electrical (excluding farm machinery and equipment and machinery lead already farm and products) and subjustion and reports and electrons work filed by large defense contractors in the following industries; Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the Ma-175, Shipments of Defense-Portented Industries, for the specified industries.

Table 2. --MALIE OF MANUFACTURES. NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES (BALLIcons of dollars)

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(Millions of dollars)

																		-
				Seast	Seasonally adjusted	pets						Without	nout seasonal	al adjustment	nent,			
			Mon	Monthly			Quarterly					Monthly	ily				Annual	al
SIC	Industry	To a	Parce	N		11.2	:			Last 4 r	months		Last	4 months	(a year ago)	(0		
		1980P	1979	1979	1979	1979	1979	111	Jan.p 1980	Dec.r 1979	Nov. 1979	0et. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Dct. 1978	1979	1978
							ALL		MANUFACTURING, DURABLE	LE AND NONDURABLE		GOODS, TOTAL						
	All manufacturing industries: Total	155,137	149,758	146,569	146,640	442,967	430,326	425,195	144,771	142,086	144,297	153,346	132,056	130,517	136,066	142,776	1,732,015	1,541,861
	portation	138,788	132,368	130,228	130,954	393,550	379,899	370,268	129,261	126,056	127,956	134,085	113,213	113,544	114,954	119,654	1,515,492	1,331,442
	unfilled orders,,,,,,,,,,	83,481	79,324	77,770	77,800	234,894	228,087	230,131	78,402	75,818	75,948	83,039	73,141	71,929	74,222	78,876	934,102	834,704
	Edrable goods industrates,	81,495	77,751	75,417	76,663	229,831	224,134	228,946	75,500	73,106	73,197	81,256	73,762	71,899	75,125	80,552	926,580	841,739
	orders, and orders with unfilted	58,052	65,167	62,466	63,099	190,732	183,831	187,607	63,765	62,136	60,557	56,545	60,730	59,295	60,814	65,132	761,533	680,909
	Nondurable goods industries, total	73,662	72,007	71,152	716,69	213,136	206,192	196,249	69,271	086,89	71,100	72,090	58,294	58,617	176,09	62,224	805,435	700,121
	orders	15,429	14,157	15,30%	14,701	44,162	44,256	42,524	14,637	13,682	15,391	16,494	12,411	12,634	13,408	13,744	172,569	153,795
	parerres announce saturates	58,213	57,850	55,848	55,276	168,974	161,936	153,725	54,634	55,298	55,709	55,596	45,883	45,983	47,533	48,480	632,866	546,326
								MARKET CA	CATEGORIES A	AND SUPPLEM	SUPPLEMENTARY SER	IES						
	Market categories: Home goods and apparel Consumer staples.	11,334	10,997	10,689	10,765	32,451	31,996	31,017	9,932	9,479	10,868	11,822 26,817	8,721	8,367	10,054	10,697	126,005	114,547
	Equipment and defense products, except automotive	23,829	23,630	22,165	20,726	33,479	62,835	51,681	21,959	23,988	20,849	23,109	18,377	20,100	20,167	23,311	258,447	226,205
	plies, and intermediate prode,	13,348	12,915	12,602	12,773	38,290	37,648	36,821	11,154	11,660	12,307	13,266	9,743	11,240	11,319	11,981	149,383	131,384
	and intermediate products	69,845	64,627	64,458	64,945	194,031	187,306	184,542	67,276	61,489	62,917	65,432	59,172	55,323	56,358	57,532	749,670	645,552
	Supplementary series: 7 Household durable goods indus-																	
	A The San and a san a sa	5,076	4,651	4,642	4,714	14,007	13,932	13,907	4,453	4,194	4,561	5,080	3,914	3,978	4,285	4,551	55,939	51,456
	Capital goods industries Nondelense	26,803	25,636 22,860 3,776	25,438 21,419 4,019	24,012 20,999 3,013	75,086 65,278 10,808	72,350 62,784 9,567	72,813 63,485 9,328	25,094 21,428 3,566	26,420 22,571 3,849	24,221 20,447 3,774	26,987 22,560 4,427	22,527 19,679 2,848	23,044 18,895 4,150	24,100	27,101	299,216 259,721 39,495	261,400 219,693 41,706
								11	INDUSTRY GROUPS AND	UPS AND IN	INDUSTRIES							
	Durable grods industry: Stone, clay and glass	4,647	4,156	4,144	4,079	12,379	12,279	12,223	4,035	3,562	4,072	4,325	3,204	3,570	3,783	4,162	48,145	44,164
33	Primary metals, total	13,576	11,415	11,554	12,315 5,665	35,284	33,351	34,710	13,464 6,249	10,903	10,932	11,880	13,497	11,341	10,866	11,571	142,882	128,002
200-000		806,3	5,244	6,988	5,440	15,672	14,822	14,464	5,951	5,205	4,675	5,297	4,786	4,754	4,160	4,537	59,802	49,500
	Fabricated metal products	8,548	9,641	9,035	9,503	28,179	27,007	27,391	8,454	8,964	8,758	069'6	8,504	8,868	8,529	8,702	111,622	910'66
351	Machinery, except electrical, total, Engines and turbines.	1,360	14,130	13,816	14,102	42,048	3,228	39,414	13,828	13,802	13,093	14,245	12,126	12,782	12,272	13,244	163,304	142,863
354	material handling equipment Metalworking machinery	3,033	2,956	2,315	3,139	8,410	3,118	7,767	2,932	2,734	2,228	3,029	2,574	2,592	2,553	2,604	32,301	29,376
386	Controlles at end of table.		rac	20747	7,400	21212	04716	2,000	21.4.1	211	i azary	62717	10/6	924	240	4,104	126667	747,474

Table 2. --value of AMANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES --Continued

Millions of dollars

				Seast	Seasonally adjusted	ted					With	Without seasonal adjustment!	al adjustme	en t.t				
			Mon	Monthly			Quarterly					Monthly	ılı				annuar	naı
210	Industry				4-0	****	***	**		Last 4	months		Last	Last 4 months	a year ago	(02		
		1980P	1979r	1979	1979	1979	1979	1979	Jan, 1980 ^p	Dec . 1979	Nov. 1979	0ct. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Oct. 1978	1979	1978
								INDUST	INDUSTRY GROUPS AND INDUSTRIES Continued	AND INDUSTR	TESConti	nued						
36	Electrical machinery, total	10,838	10,073	9,720	9,661	29,454	28,496	28,639	9,985	9,837	9,387	10,047	8,834	9,026	8,713	9,377	115,785	103,216
363	distribution equipment and industrial apparatus,	1,698	1,660	1,705	1,782	5,147	5,048	5,382	1,645	1,519	1,644	1,795	1,747	1,408	1,565	1,678	20,653	18,356
365	Radio and TV.	625	541	572		1,464	1,859	1.913	477	587	622	466	509	703	120	200,1	7 1,45	7 522
366	Communication equipment	3,315	3,254	2,921		9,076	8,365	8,003	3,168	3,282	2,693	3,166	2,499	2,783	2,422	2,828	34,076	29,346
367	Electronic components	766'1	1,768	1,658	1,845	5,271	9,000	5,080	1,839	1,660	1,614	1,666	1,614	1,477	1,504	1,481	20,416	16,655
37	Trunsportation equipment,	16,349	17,390	16,341	15,686	49,417	50,427	54,927	15,510	16,030	16,341	19,261	18,843	16,973	21,112	23,122	216,523	210.419
372,6	Aircraft, missiles, and parts	5,234	6,537	5,405	3,944	15,886	14,879	17,101	5,046	6,286	5,158	6,338	4,737	4,427	6,881	6,183	65,796	53,503
3731	shipbuilding and military tank vehicles	196	1,060	749	732	2,541	2,370	2,031	856	686	700	955	909	475	308	2,606	8,964	9,246
38	Instruments and related products	3,614	3,340	3,198	3,173	9,711	9,336	9,083	3,241	3,359	3,244	3,290	2,621	2,914	2,832	2,946	37,149	32,654
25	All other durable goods	8,213	7,506	7,609	8,144	23,359	22,749	22,559	6,983	6,649	7.370	8.518	6.133	6.426	7.018	7.428	91 170	18

Perlamany Newstern Newstern Perlamany Newstern N

Household durable goods industries - Household furniture: Mitchen articles and pottery; cutlery, nandrools, and hardware: household appliances; radio and TV; opthalmic goods, watches, and clocks and miscellaneous

Nonderines productives - The application of secretarial condenses and the Reference Products of Secretarial Research Configurates.

Nonderines products—'Realization of Secretarial Form and machine along Nonderines producting household appliances, radio and TV and electronic components, and the modelense partitions of Shipbuilding and repairing and rathroad equipment, arrently and account parts, and orderines of Shipbuilding household appliances, radio and all that by Marge defense contractors in the following household reference reports on detense very factors of the March's Shipments of Petras-Cyrented Industries, for the specified industries, arrent and alternit parts, and shipbuilding. The character products of the March's Shipments of Petras-Cyrented Industries, for the specified industries, the specified industries of the March's Shipments of Petras-Cyrented Industries, for the specified industries of the March's Shipments of Petras-Cyrented Industries, for the specified industries of the Application of the March's Shipments of Petras-Cyrented Industries, for the specified industries of the Application of the March's Shipments of the specified industries of the Application of the March's Shipments of the Application of the

Table 3 .- - VALUE OF NANUFACTURENS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENT SERIES

(Millions of dollars)

							(Millions	ons of dollars	ars)									
					Seasons	Seasonally adjusted	pa						Withe	out season	Without seasonal adjustment ³	int,		
			Mon	Monthly				Quarterly						Monthly	hly			
SIC	Industry	Ten	Desc	New	100	1111	-	-	ř	111		Last 4 n	months		Last	6 months	(a year ago)	
		1980P	1979*	1979	1979	1979	1979	1979	1978	1978	Jan,p	Dec. r 1979	Nov. 1979	Oct. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Det. 1978
							ALL	MANUFACTURING,		DURABLE AND NOW	NONDURABLE GOODS,	ODS, TOTAL						
	All manufacturing industries:	282,642	278,846	275,471	273,047	271,946	269,086	259,267	238,652	222,368	282,690	277,153	274,721	273,707 2	245,032	237,134	233,600	1229,031
	portation	178,878	176,099	175,370	174,347	173,640	173,753	170,129	157,742	150,641	177,499	173,713	173,347	173,363 1	161,336	155,758	153,520	152,496
	Durable goods industries,	270,980	267,071	263,435	261,679	260,576	258,457	248,839	228,181	212,101	271,162	265,777	263,015	262,523 2	234,957	226,975	223,466	219,003
	Nosdurable goods industries, total	11,662	11,775	12,036	11,368	11,370	10,629	10,428	10,471	10,267	11,528	11,376	11,706	11,186	10,075	10,159	10,134	10,028
								MARKET CA	CATEGORIES A	AND SUPPLEMENTARY	ENTARY SERI	1155						
	Market categories: Howe goods and apparel	4,562	4,538	4,665	4,767	4,963	100,8	4,773	4,108	619,4	4,261	4,223	4,515	4,907	060'5	3,906	4,112	4,467
	Automotive equipment	3 156,788	154,691	152,163	150,500	150,430	148,905	144,844	134,669	125,074	157,908	155,241	153,125	152,182 1	137,083	134,991	133,339	130,419
	Construction materials, sup- place, and intermediate prods,	20,505	20,772	20,499	20,741	21,037	21,114	20,955	20,195	19,746	20,522	20,648	20,411	20,648	20,330	20,069	19,619	19,804
	and intermediate products	100,787	98,845	98,144	97,039	95,516	990,96	88,697	79,680	72,935	666'66	97,041	96,670	026,86	83,529	76,168	76,530	74,341
	Supplementary series: 7 floasebold durable goods indus- fries. Captial goods industries. Captial goods industries Defense?	3,568 181,769 133,857 47,912	3,408 179,055 131,563 47,492	3,494 175,818 128,925 46,893	3,663 173,117 127,107 46,010	3,914 172,199 126,199 46,000	4,020 167,963 122,825 45,138	3,915 160,318 115,730 44,588	3,347 147,787 104,225 43,563	3,796 136,747 97,248 39,499	3,267 182,778 134,105 48,673	3,199 179,356 131,567 47,789	3,385 177,142 129,800 47,342	3,780 175,353 128,695 46,658	3,305 151,098 107,043 44,055	3,193 147,951 104,167 43,785	3,338 146,563 103,906 42,657	3,639 142,898 101,701 41,197
								INI	INDUSTRY GROU	PS AND	INDUSTRIES							
	Durable goods industry:										Ī							
32	Stone, clay and glass	2,971	2,904	2,880	2,928	3,096	3,009	2,832	2,943	2,737	2,950	2,778	2,792	2,852	2,872	2,816	2,635	2,707
331	Primary metals, total,, Blast furnaces, steel	30,550	29,607	29,981	30,252	30,024	31,902	31,463	26,738	24,844	30,329	28,737	28,534	28,806	29,126	25,980	25,036	24,637
333-0,	metal products	9,855	9,295	9,187	9,193	8,833	8,445	8,115	7,443	6,729	9,835	9,063	8,608	8,743	7,912	7,264	6,613	6,743
34	Fabricated metal products	28,062	28,257	27,828	28,013	27,818	27,970	27,652	26,094	25,144	28,054	28,193	27,836	28,108	26,605	26,034	25,565	25,526
353	Machinery, except electrical, total, Espanes and turbines,	59,671	58,729	58,260	57,524	57,323	57,296	56,565	53,037	30,860	59,326	58,343	58,279	57,711	53,732	52,726	52,441	51,855
	material handling equip-	8,687	677 B	8 199	8 275	7 977	7 993	8 028	7 957	7 626	8,660	200	8 125	R 175	8 117	2 869	7 223	7 596
354	Wetalworking machinery	7,459	7,072	6,975	6,922	6,756	6,111	5,699	5,100	4,738	7,347	7,114	7,093	6,984	5,280	5,125	5,083	4,859
See	See footnotes at end of table,																	

Industry group Jan. 1967 1974	0ct. 1979 35,002 7,474 385 389	111 1979 1979 1979 1979 1976 1976 1976	90 3	1V 1978 TRY GROUPS AND					Monthily	ulv.			
Jan. 1980 1973 1973 1973 1973 1973 1973 1973 1973	35,002 1,474 1,474 385 379		93	1978 1978 TRY GROUPS A									
1980° 1965. 196.300 35,552 7,498 7,533 10,787 10,735 10,784 102,747 1 79,321 77,893 11,165 11,279	35,002 7,474 385 385		3	1978 TRY GROUPS A			Last 4 conths	on ths		Last	dst a months to vent again	a vear ago	
76.300 39,552. 7,498 7,533 10,529 10,335 10,529 10,335 10,335 10,354 105,747 11,747 11,163 11,783	35,002			TRY GROUPS A	1478	Jan. Lysop	Jec. r 1979	Nov. 1979	Oct.	lun.	1,178	2.78	1.0%
7, 498 7, 533 10, 535	35,002		~		O INDISTRI	IMDISTRIES t out inued	ned						
1,498 7,533 3.08 1.08 1.08 1.08 1.08 1.08 1.08 1.08 1	-			9 30,427	24,044	35 042	35,265	35,148	35,573	868,00	34,201	- 27.97.2	(,,,,
1,18 1,18 1,18 1,18 1,18 1,18 1,18 1,18					6,543		7,473	7,438	7,4+0	6,873	+ nK5	1,755	9,648
10,529 10,335 10,335 10,335 10,335 10,335 10,335 10,335 10,335 10,345 11,345 11,245 11			483 438		387	32.0	310	316	3.18	4.3	3+ .:	IT	3 + 1
10.559 10,335 10					881		339	357	£5.	4444	245	513	. 22
103,754 102,747 1 d 77,893 77,893 arv 11,163 11,279			9,186 8,532	7,587	13,293 b,785	10,255	10,040	575 t	10,714	7,815	7,117	7,134	7, 44
arv. 11.163 11,279	98.700	98.506	95.333 89.138	80,910	711.727	105,191	103,440	101,374	100,344	83.14	81.375	80,080	78,53
arv 11.163 11,279	73,386				44,847	80,74.	78,810	15,575	75,102	18,539	, e, 813	224	Cir
	11,069	01,098 10	10,906 10,947	7 11,005	4,582	11 L25	11,9%	11,023	11,086	10,798	10,745	11,0,11	:11
pr ducts 5,898	506,3	2,823	>,640 5,423	160'5	-,,771	0.1+4	1,967	5,85,	2,916	. 182	1,071	7	* *
111 other durable gods 3 +37 3,283 3,263	3,355	3,271 3	3,401 3,197	2,939	57-17	1,126	3,054	3,197	112.5	1,846	2,771	77.	16. 5

Shipments and new orders are the totals for the period and are adjusted for tradimental and deformed and are adjusted for tradimental and deformed and are adjusted to frequency and increased the period and are adjusted to frequency.

The supplementary series are regroupings of the separate industry categories as follows

Household durable group, industries - Household furniture; Kitchen articles and pottery, cutlery, handtools, and hardware household uppliances, radio and liv, cutthads to the control of the control of

Capital good industries - The capital goods industries suries is comparable to the prectinal Producers' Capital Goods and the knews Promises (oil strike) categories. When the precise is a school produced with the precise of the produced with the precise of the produced with the products and any produced with the products and any produced with the products and produced by the product of the pro

close products - Based on separate reports on defense work filled by large detense contractors in the following industries. Ordinance, data are comparable to those published annually in the Wa-125, Shipments of Defense-Oriented Industries, for the specified industries.

Pigatoming in 1979, the fiscal year for the Federal Government probably affected the availating of contracts and other innoces. Although the impact of this chain, is not lower ment to the especial distance before a second factors would be assistance of the contract of the previous calcular training on of the previous and the available of the previous calcular quarter lace, and quarter procedure the ord of the first lace response to the previous calcular quarter lace, and quarter procedure the ord of the lace response to the previous calcular quarter lace, and quarter procedure the ord of the first lace response to the separately that are the first lace and the first lace response to the separately that are accorded to the response to the separately that are accorded to the first lace of the first lace of calculating the seasonal factors will be used with a sufficient amount of data are available to assess the impact of the damps in no liberty and the defense industries.

Table 4, -- AMIT DE WANTACTORERS INVESTIGATES FOR INFISTRA CHORDS, WARRY CATEGORIE AM TERRATALE DE DE

							OM11110ms	of a lian	183									
	1				Seasonally	lly advisted	-						A 2 f 2, with	nut seas mal	al adrit to			
			Mon	this			^	arterly						" n "	. III			
SIC	Industria	Tun.	Doc.	, .0.	- 19	111	11		-	=			4.		Tay.		3 31 3.	
		£ .	11747	1.51	1 + 7 +	17.7	14.1	į.	Ž.	1	- 1			17	Zari-	3 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 ,	ji.	21.
							WIT W	Sty Pite 7 P	Mary ' W	NO NO	N. PERSON AND	N IM		1				
	All anutactaring industries fotal,	73.,0.4	57.7	to the to	1 1 1 1	1 1911	214, 114	i.	100,001	14, 14	- 17 19				+ + + + + + + + + + + + + + + + + + + +	7.		2.
	fortal ton, excluding trans-	64, 80	150,014	1 26, 541	I've, as	1	10, 00		* ' · · ·			â	7		1:	1		
	untilled orders	Iton, 5 W.	1 7,000	1	174, 57	1 . , 44.		11.7				411, 115		111,111			11	. 11,
	length good industries, total.	4 1 3 , 7 . 16	1.1, 12,	136,335	16-,163	14, 411	141, 1		,					,			1	,
	buratic goods with unfilled	147,731	14, 86	1 174, 354	10,25	11	141, 4.	1		11.11	14.14	119,411	12					
	Nondurable good, tudustrates,	78,773	16,679	115,347	75,40K	71,490	12,000	110,111	2 2 1	100	*	-			ī ,s			
	Nondarable good with unitaled order	17,67,	17, 041	17,151	17, . 10	lt, '11.		1	,	11,61	11.11		14,554	1	ĩ.		\$ 	
	and the second							TOTAL CA	THE STEEL A	IND UMBER	PAIN TERES							
	Market categories Hore goods and apparel	17,915	17,540	17, 426.	17,20.1	17, 001	17, 40%		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16,46	- 4m	11. 14. 14. 14. 14. 14. 14. 14. 14. 14.	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	1. mes	15,477	- 29	100
	Adulphent and defense pro- duct, except autocotive	63,036 10,287	61, 514 10, 299	11,651	11, su6	.8, 5% 11, 144	11,712		_ 	* * * * * * * * * * * * * * * * * * *	0,41	13.	11,11	, , , G		1, 11,	7 -	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
	plies, and intermediate	19, 526	14,696	19, 141	12,000	x x x	IN, th.	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	16 , 47 3	16, 66	19,419	14, 345	i.	, 2	- · · ·	le, son	. x31	, , , , , , , , , , , , , , , , , , ,
	and intermediate products	91,673	44, 318	88,099	86,42.	30,05,	8.2. L.8s	150,021	111,111	FS, 343	8	44.7	7	3, 1, 1, 2,	÷ *,	;	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1
	Supplementary series Renschold durable goods indus- frice Capital goods undestries.	1,331	9,169	8,438	8, 866 54, 24,	8,88.1	*	E 2	Ĩ.			x a		4 0	i i	, .	2 . 2 .	ţ,
	Nonde fense	9,646	511,076 9,451	58,541	17,40h 8,82h	54,471 8,519	5.1, 1 W	7,594		, , , , , , , , , , , , , , , , , , ,	2,484.2	-	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8,816	47,415		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		•						INDI	STRY CROTT	IS AND INDO	STRIES	1	4	-		1	1	I
32.2	Intrable goods industries Stone, clay, and glass products	5,664	5,577	5,594	5,522	51,445	5, 37.2	5,144	4,8,1	4, '41	7,734	5,541	- 38. 14.	, 310 , 4.8	400	4,744	- 604 g	
331	Blust turnaces, steel mills.	19,967	19,905	19,419	19,149	19,065	18,578 10,260	17,761	17,4h2	17, 473	20,321	20,153	19,354	14,306	14,161	18,187	1,436	17,424
	metals	7,551	7,609	7,338	7,175	7,195	806 4	6,638	6,411	6,476	7,589	7,5,5	7,243	,031	6,783	6,836	4,853	7. x c
34.1	Tabricated metal prod., total.	19,354	19,279	14,223	18,771	18,682	18,584	17,796	16,834	lh, 178	19,257	18,447	18,845	18,523	17,048	le, olo	10,374	1
		1,384	1,578	1,546	1,447	1, 362	1, 180	1,243	1,211	1,704	1,512	1,363	1, 317	1,246	1,294	1,045	1,0"7	1,148
35 351 352 353	Machinery, except electrical, total. Empires and turbines. Farw machinery and equipment Construction, aning, and	37,227	36,502 2,701 3,102	36,372 2,609 3,002	35,957 2,549 3,010	35,525 2,632 2,889	34,120 2,522 2,850	32,509 2,492 2,694	30, 925 2,461 2,583	29,705 2,324 2,369	37,379 2,675 3,168	36,530 2,689 3,096	2, n34 2, n34 2,846	2,558	31, 582 2,445 2,641	2,444	30, 122 2, 365 2, 327	29,665
354	material handling equipment Metalworking machinery General industrial machinery	8,645	8,134	8,406 2,252 3,569	8,214	8,107	2,203	7,435	7,037	1,882	8,521	8,289	8,255	8,017	7,276	7,164	1,950	0, 580
See	See footnotes at end of table.					1364	CTC 10	0,420	2,171	16.000	0,1,0	3, 606	3,523	3,444	3, 269	5, 143	3,119	3,062

(Millions of dollars)

							(MIIIIO)	s or dollar	(8)	-								
					Seasona	Seasonally adjusted	pa						With	ut seasona	Without seasonal adjustment	nt i		
			Mon	Monthly			3	Quarterly						Monthly	1 1 y			
SIC	Industry	Jan.	Dec.	Nov.	Oct.	III		-	> 1	E		Last 4 mc	nonths		Last	4 months	a vear ago)	
		1980 ^p	1979 ^r	1979	1979	1979	1979	1979	1978	1978	Jan., 1980 ^p	Dec., 1979 ^r	Nov. 1979	0c t. 1979	Jan. 1979	Dec. 1978	Nov. 1978	0ct. 1978
								INDUSTRY		GROUPS AND INDUSTRIES	, s					1		
361,2	Electrical machinery, total Electrical transmission	20,999	20,585	20,013	19,817	19,486	18,714	18,066	17,066	17,012	502,02	20,241	19,804	19,610	17,404	16,779	16,912	16,821
365 366 366 367	and indistribution equipment and industrial apparatus Household appliances Radio and TV. Communication equipment Electronic components	3,819 2,098 1,07b 7,402 3,118	3,753 2,106 1,042 7,122 3,086	3,747 1,989 959 6,896 2,988	3,730 1,982 958 6,758 2,977	3,632 1,967 963 6,595 2,897	3,524 1,956 984 6,129 2,850	3,365 2,025 1,013 5,833	3,248 1,953 1,031 5,431 2,508	3,163 2,024 1,005 5,401 2,531	2,070 2,070 1,018 7,285 3,100	3,758 2,014 1,005 7,021 3,058	3,720 1,896 954 6,903	3,691 1,900 955 6,753	3,284 1,934 1,035 5,635	3,252 1,869 1,969 5,356 2,495	1,467	3, 185 1, 408 4,48 , 381
37.	Transportation equipment, total. Motor vehicles and parts	30,449	29,881	30,118	29,465	28,534	27,390	25,717	24,131	23,714	30,534	29,511	30,236	29,673 9,135	25,107	23,874	24, 184 8, 143	23,663
3731	Alreralt, missiles, and parts. Shipbuilding and military tank webreles	18,041	17,400	16,883	16,169	15,481	14,696	13,176	12,593	11,532	17,868	17,102	16,883	16,157	12,737	12,391	12,125	11,916
38 381-4 386	Instruments and related products, total. Scientific and engineering. Phitographic voods.	8,048	7,713	7,595	7,491	7,456	7,336	7,036	1,772 4,243 1,243	6,292 4,098	8,041	7,580	2,222	7,4447 5,034	4,637	4,352	1, 763 r	1, 434 4, 129
39	All other durable goods industries	12,048	11,934	11,993	11,870	11,734	13,606	11,249	11,014	10,693	12,078	11,768	11,715	11, 160	11,128	10,863	10, 73.	10, m 3
20 201 208 207 203-6.9	Nondurable goods industries food and kindred product, foods. Neat product Browerige, Fars and oils. All other foods.	20,308 1,957 3,755 1,912	20,326 1,990 3,889 10,888	19,982 1,872 3,756 1,840	19,871 1,844 3,688 1,867	19,856 1,753 3,679 1,704	19,106 1,716 3,614 1,605	18,119 1,650 3,478 1,598	17,262	16,784 1,558 3,236 1,384	21,119 1,434 3,823 2,115	21,024 1,869 3,830 2,141	21,096 1,895 3,745 2,106	20,797 1,805 3,762 1,820	18,010 1,948 3,542 1,632	17,85H 1,574 3,418 1,635	17, 95.4 1, 17.5 1, 10.5 1, 10.5	17,763 1,555 3,356 1,465
2.1	2	3,576	3,523	3,605	3,693	3,746	3,716	3,586	3,619	3,449	3,791	3,727	3,652	3,696	3,870	3,824	3,675	3,519
22	Textile Fill products	5,923	5,848	5,795	5,746	989*5	5,645	5,718	5,666	5,606	116,0	5,094	5,611	5,540	5,715	5,520	5.474	5,405
26 201-3 200 200 200	Paper and allied products, total, Philp, paper, etc	6,864 2,346 1,925 2,593	6,779 2,321 1,899 2,559	n, o15 2,258 1,847 2,510	6,538 2,198 1,809 2,531	6,422 2,137 1,843 2,442	6,344 2,090 1,785 2,469	6,045 2,053 1,752 2,240	5,875 2,006 1,710 2,159	5,839 2,005 1,710 2,123	5,880 2,343 1,905 2,532	7.722 2,313 1,863 2,546	6,5hb 2,236 1,830 2,500	6,458 2,178 1,747 7,483	1,972	1,944	1, 696 1, 696 2,04	1,000
281,6	total	17,827	16,978	16,847	16,610	16,582	15,901	15,548	15,429	15,235	18,195	17,280	16,822	16,409	15,809	15,714	10,235	14,451
283,4		5,878	5,277	5,070	5,038	5,021	4,677 5,196	4,482	4,858	4,590	5,107	5,398	5,100	5,023	4,054	4,701	4,7,12	4,522
67	Petroleum and coal products	7,028	099*9	6,527	007*9	6,354	5,347	5,003	5,423	5,408	7,059	6,816	6,484	6,571	5,403	5,551	7	5,130
	п. е. с.	4,803	4,750	4,797	4,818	4,962	4,870	4,707	4,602	4,563	4,912	4,804	864,4	4,703	4,731	5,0,5	\$ 1 T	4,445
31	All other nondurable goods industries	11,944	11,615	11,659	11,732	11,882	11,710	11,525	10,939	10,773	11,665	11,270	11,146	11,450	10,865	ž.	419	111,433
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The supplementary series are regroupings of the separate industry categories as follows:

foursehold durable proofs industries - Household furniture, Kitchen artitales and pottern; cutlern; handtools, and hardware; household dupliances, radio and IV, ophthalvare proofs, satisfies, and elseke, and cleake, and satisfies and pottern; cutlerns and potterns and pottern; cutlerns and potterns and pottern; cutlerns and potterns and

⁹ Copital productives The cognitives series is comparable to the provious Producers' Capital Goods and the Defense Products (old series) categories.

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TABLE 5.--VALUE OF MANIFACTIBERS' INVENTORIES, BY STAGE OF PARRICULION, BY INMISTRY GROUP

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Table 6 .-- MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

	Mor	th-to-mon	th	Aver	age monthly	rates of ch	ange	Average,	1975-1979
	Dec				3 months		12 months		
Item and industry group	1979 Jan. 1980	Nov Dec. 1979	Oct Nov. 1979	Oct. 1979- Jan. 1980	July- Oct. 1979	April- July 1979	Jan. 1979 Jan. 1980	Average rise	Average decline
Shipments:									
All manufacturing industries	+3.4	+1.6	-1.0	+1.3	+0.9	+1.9	+1.0	+1.7	-1.3
Durable goods industries, total Nondurable goods industries, total	+4.7 +2.1	+0.6	-2.5 +0.7	+0.9 +1.8	+0.9 +0.9	+1.3 +2.6	+0.6 +1.4	+2.0 +1.6	-2.0 -0.7
Total inventories: All manufacturing industries	+1.8	+0.8	+1.2	+1.3	+1.0	+1.1	+1.2	+0.7	-0.3
New orders: All manufacturing industries Durable goods industries, total Nondurable goods industries, total	+3.6 +4.8 +2.3	+2.2 +3.1 +1.2	-0.0 -1.6 +1.7	+1.9 +2.1 +1.7	+1.4 +1.9 +1.0	+0.3 -1.6 +2.5	+0.8 +0.3 +1.5	+2.0 +3.3 +1.6	-1.5 -1.9 -0.7
Unfilled orders: Durable goods industries, total	+1.5	+1.4	+0.7	+1.2	+0.5	+0.4	+1.2	+1.3	-0.8

Table 7,--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inve	ntoriess	hipments r	atio	Unfille	ed orders-	shipments backlog)	ratio1
	Jan 1980	Dec 1979	Nov 1979	Oct 1979	Jan 1980	Dec 1979	Nov 1979	Oct 1979
All manufacturing industries, total	1.53	1.56	1.57	1.54	3.55	3.67	3.66	3.56
Durable goods industries, total	1.98	2.04	2.04	1.96	4.22	4.34	4.34	4.22
Stone, clay, and glass products	1.24 1.58	1.35	1.34	1.30 1.58	0.70	0.77 2.51	0.75 2.54	0.76 2.50
Fabricated metals. Machinery, except electrical.	2.03 2.67	2.09 2.67	2.08	2.02	3.24 4.65	3.36 4.71	3.33 4.83	3.30 4.50
Electrical machinery. Transportation equipment. Instruments and related products.	2.08 1.99 2.38	2.11 2.03 2.38	2.11 2.02 2.37	2.11 1.90 2.43	3.60 12.46 1.84	3.65 12.59 1.85	3.71 12.48 1.84	3.73 11.90 1.91
Nondurable goods industries, total	1.06	1.06	1.08	1.08	0.75	0.82	0.82	0.77
Food and kindred products	1.02	0.98	0.99	0.98	(X)	(X)	(X)	(X)
Tobacco products Textile mill products	1.43	3.43 1.49	3.42 1.46	1.42	(X) (NA)	(X) (NA)	(X) (NA)	(X) (NA)
Paper and allied products	1.12	1.23	1.18	1.16	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.27	1.24	1.28	1.29	(X)	(X)	(X)	(X)
Petroleum and coal products	0.51 1.18	0.50 1.32	0.51 1.33	0.52 1.28	(X)	(X) (X)	(X) (X)	(X)

⁽MA) Not available. Preliminary. *Revised. (X) Not applicable.

**Lacludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



current housing reports

Data on housing vacancies and housing characteristics

U.S. Department of Commerce BUREAU OF THE CENSUS

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Number of bedrooms
Number of housing units in the structure
Duration of vacancy
Plumbing facilities
Monthly rent and sale price asked
Year structure built

Also shown are percent distributions of all vacant housing units by year-round and seasonal status, figures on occupancy and vacancy rates based on the total housing inventory, and the home ownership rate. The annual report, in addition to the above, presents percent distributions of housing characteristics for both renter- and owner-occupied units.

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CURRENT INDUSTRIAL REPORTS

Manufacturers' Shipments, Inventories, and Orders

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U.S. Department of Commerce BUREAU OF THE CENSUS 51 (8) FEBRUARY 1980

M3-1 (80)-2 For release 2:30 P.M. Tuesday, April 1, 1980

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in February declined \$0.9 billion or 0.6 percent to \$155.2 billion the Department of Commerce, Bureau of the Census reported today. This decline followed an increase of 4.3 percent in January, when the volume was \$156.1 billion.

New orders reported by the durable goods industries were unchanged from the January level of \$82.0 billion. This revised downward the earlier reported 0.7 percent increase for February. Most of the major durable goods industry groups reported declines: nonelectrical machinery was down \$0.7 billion or 4.5 percent; primary metals, down \$0.4 billion or 3.0 percent; stone, clay, and glass products, down \$0.2 billion or 4.9 percent; and transportation equipment, down \$0.2 billion or 1.3 percent.

Within the primary metals category, the nonferrous industries reported a drop in orders of \$0.6 billion or 9.0 percent to \$6.0 billion, following a 26 percent increase in January. The nonferrous orders have been fluctuating the last few months due to the instability of prices in copper and precious metals. The nonferrous decline was partially offset by a \$0.3 billion or 4.9 percent increase in steel orders. This is the second consecutive month steel orders have been strong, following substantial order declines during most of 1979.

The decreases in new orders for nonelectrical machinery industries, down \$0.7 billion or 4.5 percent to \$14.3 billion, were widespread with 9 of the 11 industry categories declining. New orders for transportation equipment declined \$0.2 billion or 1.3 percent to \$16.6 billion. Declines of \$0.9 billion in aircraft orders and \$0.4 billion in railroad equipment orders were partially offset by a \$1.0 billion increase in the motor vehicle industry, where the automotive assembly portion of that industry's new orders are considered equal to shipments made during the month. The only significant increases in durable goods new orders came from fabricated metal producers, up \$1.1 billion or 11.7 percent to \$10.3 billion and electrical machinery manufacturers, up \$0.3 billion or 2.9 percent to \$11.2 billion.

New orders for nondefense capital goods showed a sharp decline in February, down \$2.0 billion or 8.2 percent. The decline resulted primarily from decreases in the commercial aircraft and nonelectrical machinery industries. In contrast, defense capital goods orders were up 7.7 percent or \$0.3 billion,

with the communication equipment and shipbuilding industries reporting the largest increases.

Shipments of all manufactured products increased \$0.7 billion or 0.5 percent to \$152.6 billion in February. Durable goods shipments were up more significantly, increasing \$1.6 billion or 2.0 percent to \$79.4 billion. Automotive shipments, up \$0.5 billion or 5.6 percent, and machinery shipments, up \$0.6 billion or 2.4 percent, accounted for most of the increase. Although the automotive industry has reported large increases the last 2 months, the \$9.9 billion February volume of shipments is well below the high for the industry of \$12.6 billion in January 1979.

Shipments from the nondurable goods industries dropped in February \$0.9 billion or 1.2 percent to \$73.2 billion. This is the largest decline reported since April 1979 when the shipments dropped 3.8 percent, due to the truckers' strike, and the 1.8 percent decline of January 1978 when weather was a factor. The largest declines in shipments of nondurable goods occurred in the paper, printing, chemicals, and rubber and plastics industries.

The value of manufacturers' unfilled orders for February increased \$2.6 billion or 0.9 percent to \$285.7 billion. Most industries which carry backlog information reported increases. Exceptions were railroad equipment which dropped 7.1 percent, shipbuilding down 0.9 percent, and nonelectrical machinery whose backlog remained unchanged from the January level of \$59.8 billion. The backlog of aircraft industry orders continued to climb, up \$1.0 billion or 1.2 percent to \$80.7 billion.

The book value of manufacturers' inventories increased \$2.5 billion or 1.1 percent to \$234.5 billion. The value of durable goods inventories increased \$1.4 billion or 0.9 percent to \$155.2 billion, with the machinery, steel, and aircraft industries contributing to most of the increase. The value of inventories of nondurable goods increased \$1.1 billion or 1.5 percent to \$79.3 billion. This follows a January increase of 2.3 percent for nondurable goods.

The figures on the durable goods industries in this report supersede those issued earilier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for March is scheduled for release on April 22, 1980 and the full report is scheduled for release on April 30, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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Table 1. --Value of Wave Activents' SHIPMENTS PAR PAISONS ARRIES, WASSEC AND SIDE AND SCIPLINGS AS A SECTION

(Williams of colline)

							1111111											İ
				Seasonal	Seasonally adjusted							M11* .01	of seas mi	seas and advastment?	. 10	,		1
			Monthly	h13		7	runte ells					. arr 1x					ٔ د	
SIC	Indestry			1	+	= =	111			Last 1th	- 414-1	- 4	1 47	1 th	M JI W II.			
		1944P	lyworl .	1.424	1.00	i					- . <u>:</u>	;:	11			14	* * * * * * * * * * * * * * * * * * * *	-63
					4		1 11	NEWFREN	TANKER PRESENT DIRECTOR	ANI A MERADIA	FARIT ANDS.	Nate 's	1	1	4			r
	All manufacturing industries Fotal	152,633	131,4 0	1,10,34.	100,000	, , , s.	1 1, 11 1		113	1991	- 4,4	2			- 1	٠ ٠٠٠,١٠		
	Total, excluding trans-	130,7,0	18, 483	131,458	7	5 em . 416	1 '	300,000	4	1,111		4.	11,414	11111.	.1.50	11.44		1,57,48.
	folial for industries with un-	81.057	8 8	75,450	;	2		ē.	Y T T	7.	5, 54	10.7	· ·	1	***		*** 5, 4, 1	1. 7.62
	Durable goods industries, total.	79,405	77,817	7 18	73.4.7	. 3, 5.	G . :	[4, 0, 5]	, ;	X	ī		į.		Y .	:	:	
	Durable goods with unfilled	60,721	Pode 1, 1 4 5.	61, 35		×	181,11	*	:	·	;	2		.;		1	Ĉ.	13.
	Vendurable goods insustries,	7 sec. 28	24,103	7.,166	181.1	1,731	******		,:			į	2310	į	ī	·.	;	13,31
	Nondurable goods with unfilled orders	15,336	15,6,7	la, ale	14, 636		.1.1.	. 3.4	÷.	:	1., 15	£, ;	, · · · · · · · · · · · · · · · · · · ·	` <u>.</u>			¥ .	;
		-			4	-	,	·	1, . (h. 's	AL SUPPLEM	N. U. SEUBS	* * * * * * * * * * * * * * * * * * * *		,	1	1	,	
	Market categories: Home goods and apparel Consum r staples	111.688	11,796	11,113 12,12 12,13,13	200, 210	38,.38	1 7	25, 34		7.7		-	11.0	, <u>,</u>	11		1	134, 5
	Equipment and defense pro- ducts, except automotive Automotive equipment	.1 874	11,417	11,089 11,93a	12	61,	, , ,	, ,	11.11	; ;	: :	7 7	7 .	15, 8 , 1 13, 194	* :	1.1	36.734	44, 129 . 54, 75
	Construction materials, sup- plies, and intermediate products	13,084	13,386	Links	1.,8,,	χ.	5.7 *	\$4.746]	7. · · · · · · · · · · · · · · · · · · ·	11, %	1 1	12, 45	- £	700	- Cop. 1	11, 205	£ x . x	130,075
	Other materials and supplies and intermediate products	167,84	639,83	3:6'51	13,35	190,717	r r	179,125	20.00	2,	1111	1.	N I N	13.747	13,1 44	24,189	, se , se ,	164,447
	Supplementary series; 2 Household durable gonds Indus- tries Capital gods industries Nondefense	5,235	1,029 21,024 21,029	47,47	18 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	1. 19. 54. 54. 54. 54. 54. 54. 54. 54. 54. 54	1, 1, 15 (11, 23 (11, 24) (12, 24)	10 5 % 3 % 5 % 5 % 5 % 5 % 5 % 5 % 5 % 5 %	35.5	13.53.5 13.64.5 13.64.5	\$ - 70 C	5 T T T T T T T T T T T T T T T T T T T	21,74	14, 370	41,5		, T. S.	1. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.
						-	-	INDI	INDUSTRA GROUPS	MINI ON S	STRIES	-	1	1		- 1 - 1	7	
32.2	Durante goods industries: Stone, clay, and glass products	4,235	4,454	4,133	191,2	12,369	1,14	12,44th	3,898	2,7	3,576	, , , , , , , , , , , , , , , , , , ,	3, 58n	3,1+7	3,389	3.855	180,180	4.3.28.8 5.6.41
33	Primary metals, total	5,903	12,948 5,684	11,787	11,825	15,700	35,2.8 17,51.	34,771	5,920	1.,718	10,699	3,321	11,653	5,186	10,347	10,40	147,122,	150,04 101,035
333-9	Nonferrous and other primary metals	5,862	860'9	5,135	766 **	15,210	14,433	14,134	5,8:1	5,445	. 75 1.	4,809	1921	4,138	4,113	7	38,301	† ;
341	Fabricated metal prod., total.	9,834	9,515	9,211	152,4	:7,74.	27,158	27,373	9,059	8,)+8	8, b7	9,031	8,731	7, 433	8,309	7 2 2 2		11 .
	drums	820	876	8008	365	2,448	****	0,1	171	715	652	717	X()X	198	7	77.	11,146	7
35	Machinery, except electrical, total. Engines and turbines.	14,266 1,120 1,161	1,191	13,666.7	15,078	3,336	3,835	38,679 1,326 3,264	1,177	12,465	13,74.	12,527	13,078	1,013	1,319	11,039	13,136	13,111
354	material handlan equipment Netalworking machinery General industrial machinery	2,862	2,784.	780 780	2,391 88? 1,136	7,937	8,292	7,851	2,962	2,617	2,502	2,279 841 1,098	2,668	2,326	2,446	454.	31,813 9,497 13,765	28,274 8,138 11,305
Sec	See footnotes at end of table.																	

Table 1. --VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES --Continued

(Millions of dollars)

							Chilions	s of dollars)	107									
				Seasonall	Seasonally adjusted							With	Without seasonal adjustment	d adjustme	nt 1	1		
			Mon	Monthly		ď	Quarterly					Monthly	13				Vinnal	1
SIC	Industry		1		2	0.2		:		Last 4 m	months		Last	+ months ((a year ago)	1		
		1980P	1980r	1979	1979	1979	1979	1979	Feb. 1980P	Jan. 1980 ^r	Dec. 1979	Nov. 1979	Feb. 1979	Jan. 1979	line .	N. vv 1978	6261	1970
:							1	INDUSTRY GROUPS,	GROUPS, AND	O INDUSTRIB	INDUSTRIES Continued	led	1	1				
36	Electrical machinery, total	10,418	10,093	9,746	6,495	28,616	27,685	27,300	10,576	9,204	6,723	9,614	9,101	20.1.00	8,695	8,193	110,715	38,641
	distribution equipment and industrial apparatus	1,778	1,716	1,592	1,712	4,987	4,947	3,162	1,901	1,609	1,534	1,696	1,727	1,559	1,478	1, 96	16.51	12,63
365	Radio and TV	3,119	2,805	3,087	580	1,745	1,786	7,072	3,131	5.20 2,598 1,608	3,183	2,797	7336	585 185,	674	2,6.3	3.,143	3.7
37	Transportation equipment, total	15,907	15,437	14,746	14,942	45,183	47,253	48,733	16,266	13,853	13,960	15,310	17,7,9	16,5.7	15,677	17,568	194, 481 179, 384	148, P93
372,6	Aircraft, missiles, and	3,828	3,926	3,790	3,648	10,911	11,730	10,539	3,985	3,219	6*0*5	3,684	3,285	3,.10	5,558	1 1 1	+08 48 +	17,34.
3731		878	878	84.5	754	2,361	.,177	2,072	787	769	946	763	649	· .	751	969	5,645	100
381-4	Instruments and related products, total	3,642 2,036 1,418	3,349	3,247 1,953 1,104	3,205 1,839 1,153	9,541 5,560 3,375	9,154 5,301 3,222	8,864 5,164 3,089	3,509 2,016 1,312	3,030 1,832 1,034	3,248 1,328 1,151	3,394 1,837 1,247	1,769	1,504	7,741 1,573 1,018	1,5841	36,253 .1,382 12,757	31, 360 18,140 11,245
25 39	All other durable goods industries	8,185	7,966	7,586	7,701	23,349	22,878	22,357	7,841	6,832	6,795	7,585	7,0,7	6,3,8	665,4	7,437	90,885	×1,33.
20 201 208 207 203-6,9	Nondurable goods industrice: Food and kindred products, total	20,087 4,991 2,583 1,670 10,843	19,984 4,837 2,544 1,625 8,198	70,729 5,286 2,426 1,611 8,631	20,273 5,215 2,402 1,623 8,270	61,115 15,610 7,156 4,904	59,231 14,895 6,966 5,088	57,480 15,524 6,788 4,611	20,270 4,846 2,273 1,768 11,403	18,903 4,770 2,111 1,599 7,698	25, 03, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	23,518 5,163 2,438 1,666 8,45.	7,7,7,7 2,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5	17,507	55,473 5,111 1,529 7,83	18,547 5,092 2,047 1,481	4.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	# 5 E E E E
21	Tobacco products	1,126	1,063	1,027	1,055	3,137	3,217	2,834	1,061	1,002	3,786	1,078	5,637	3,519	3,+91	3,783	1,175	. 2, 441
26 261-3 265 264	Paper and allied products, total	5,796 2,793 1,345 1,658	6,014 2,697 1,385 1,932	5,492 1,623 1,214 1,655	5,585 2,607 1,240 1,738	16,718 7,828 3,711 5,179	17,016 7,692 3,650 5,674	16,504 7,516 3,623 5,365	5,898 2,790 1,364 1,744	5,705 2,583 1,302 1,820	5,156 2,488 1,110 1,256	5,550 2,587 1,739	5,379 2,345 1,182 1,852	1,133	4,573 7,185 1,337 1,451	5,011	2.1.5	
00 c	Chemicals and allied products,	13,561	14,075	13,710	13,159	39,733	37,967	36,548	13.912	12,918	12,533	12,515	111,704	13,782	10,425	10, = 3,	14.4.181	b, to 10
283,4	Industrial chemicals, except pluments	4,886	4,893	3,761	4,687	13,739	13,372	12,687	3.570	4,658	4,331	3,436	3,1.5	3,777	5,671	5,555	11,743	2.115 2.111
30	Petroleum and coal products Rubber and plastics products,	14,080	13,938	13,279	12,803	38,541	35,143	31,246	14,383	13,8.7	15,489	12,779	4,704	3 237	70+15		E .	
23	All other nondurable goods	10,539	10,772	10,515	10,030	31,621	29,7113	.8,528	10,643	9,596	6,664	10,559	8,934	8,255	2	9,44.	116,354	1.4,17
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(Physpheniary, "Boyses," | "Boyses," | "Boyses," | "Boyses," | "Boyses," | "Boyses," | Boyses, | trading-day or calendar-month variations. The separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, ratio and TV; apthalate coult, watches, and cheeks not cheeks not preveillances.

personal operated sooks industries, were as comparable to the previous Producers' Capital goods and the Definise Products (all surps) categories.

Nondefence products—the capital Goods industries are machinery and equipment and machinery leverloons, household appliances, radio and including and equipment, communication equipment, are related and arterial parts, and ordinance.

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	untilled orders,	83.156	8 - 280		1, 1, 1,	. 5 . 7 . 5 .	, () ()	a la	, , , , , , , , , , , , , , , , , , ,		÷	1				:	11 11	
	burable gods industries,	.81,98.	8, 153		- 1	×	11.1		3			ā	, , , , , , , , , , , , , , , , , , ,	ē	2			:
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	Market catagories Bear goods and oppared	111,769	23.845	10,997	10 68 51	x	5 F	T -	11. 11. 11. 11. 11. 11. 11. 11. 11. 11.	: :		;		- ;		: '		11.
	definition and defense prod- acts, except automotive,	12,471	24,898	21,630	22,365	25.5		12.2	<u> </u>	÷ ;	¥ :1:	;=	13) i	1	. Te	·; -	
	construction nationals, sup-	13, 1946	1, 188	12.41	L. w.t.	0.6 2.80	A. 6.4.X			5 x	1	0.71		1,,	: :		1.1 (8)	1.1 081
	office materials and supplies and intermediate products	64,730	7.3 982	1 19 19	7	10.01	, F.	:	31,111	7	*	7	N. H. S.	17.	77	¥ .		7
	Supplementary series 's Heasthold durable goods indus-	2.38	, 057	1. 4 ,		1. 50.	-	2	7		. 1 4:	7	.4	7	£ .	r	-	;
	(aprilat) poods industries,, Nontellende.	25,452	27 184 27,865	22.860 27.860	21,418	70. 086 95. 278	3 2 2		16.5	5 ± 4	95) 14 1			1.53	172	11.	45 E	
		1				-7	·	- Z	2 1 2 4 E 1 2 E 2	- W 12								
2:	Durable goods industry	4,183	405.7	4,156	4,144	12,334	12,274	E.25	1 4,401	11.		-	- ,8: .	-	- 2	,	, , , , , , , , , , , , , , , , , , ,	: .
11	bramary metals, fotal	13, 994	13 811	11,415	11,554	16,184	15 351	16, 75.	14,157	13,669	13 403	7. n	2	77	11	l Abb	142 891	20.00
133-5,9	NeatherFous and other primary metal products	6,075	6,618	2,264	*****	. 4.	24 . M22	14,454	5,17,	3	С,	· 2·	1 1063	£,	7	4,360	1.8	(C. 1.
2	Tabricated setal presucts	10, 30.	. 223	159,6	4 145	28,174	27 4007	27 141	10,059	. c. c.	× £	ү , ү	K Ç T		Y C		111,54.7	11, 11,
351	Machinery, except electrical, total, impines and turbines	14,349	15 028 1 356	14,130	13.816	42,04B	3,238	14,41	14,435	11,940	1,042	14,041	13, 424	12,126	12,782	21	les 194, 1 < 1 %	12 013
354 354 356	Construction, maning, and material handling equipment Metalworking machinery (oneral industrial machinery	1,030	1,027	877	2,315	8,410	3,270	10.00	1,080	982	35.7	7,228 451 1,096	2 771	1 8 6	787	9.18	12 300 15,485	24.47
3	footnotes at end of table,																	

17able 2. --value of Wanueacturers 'NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLANTARY SHRIBS -- CONTINUED

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SIC	Industry									Last 4 months	onths		Last	2414 m .	last a withs a year up		-	
		1980P	Jan.,	Dec. 1979	1979	14.61	1111	1474	Ferb, 1980 ^p	Jan.,	1479	- You	137,	127	, T	35	1474	ř.
				7	•		,	INTOSTR	NUCSTRY GROUPS AND INDUSTRIES CONTINUED	WP INPUSTE	12 John 10	Led .						
26 201,2	Hectrical machinery, total	11,239	10,923	10,073	9,720	29.454	28,496	28,639	11,531	10.052	4.837	9,387 10 264	10 204	8,834	4,025	3, 113		163.215
	distribution equipment and	1,862	1.699	1.660	1.795	5.147	5.048	5, 382	4.0	1.647	1 519	250	1 76.4	,	1.0%	5		2
101	Household appliances	1,150	1,255	1,132	1,108	3.354	3 123	3,208	1,160	1 030	1 057	1 000	1 050	154	1.	9.3]	1, 7.5	7
699	Radio and TV	821	+59	541	572	1,494	1.859	1,415	823	200	587	779	877	10.4	20.5	150	C++	0,00
99,	Communication equipment	3,548	3,263	3.254	2 921	9.076	8,365	8,003	3,507 !	3,115	3,287	2,643	3,070	663 7	2 785	7	54 G.76	Section 5
367	Hectronic components	0.66.1	180 7	1,708	000,1	1/7.0	2,006	2,080	2,159	1,425	1,660	1 514	1 /85	1.514	1/7.	1,504	70 41v	10 63 11
22	fransportation equipment,	16,600	16,813	17,390	16,341	49 417	15.4.94	54.927	16,231	15,951	16,930	lo jul	21 568	19.945	15 + 5	21 112	50.40	17
4	Aircraft, missiles, and parts	4,802	5,750	0.537	\$ 700	15.886	14,879	17,101	4,133	5,547	087. 9	5 158	6,915	4 737	7	6,881	96, 40	~
27.71	tank ventcles	179	077	1.000	149	2,541	2,370	2,031	178	744	489	700	585	504	475	308	8,994	9,.40
29	Instruments and related products	3,722	3.626	3,340	897	4,711	9.336	4,083	3,606	3 251	1, 104	5 . 64	2,777	7	1. 1.	80	5.1.49	4. 6.34
30.6	All other durable goods industries	8,093	н,105	7,000	F1 9 .	23,359 12 749	52 749	22. 559	7,857	84.	2 0	3.10 3.138		0 133		7 018	1 170	7
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Statements and new orders are to totally for the period and are adjusted for trading-day and calculations, unfilled indeps and inventities are as of the onlyst the period and are it adjusted or the supplementary series are regroupings of the separate artifolds.
The supplementary series are regroupings of the separate and other species as follows:

person products of extres the capital goods undertres is comparable to the provises preduces. Applied contents and extres the vertice and extres the vertice and extrest the vertice and extrest contents. The vertice are already equipment, communication to preduce a signature and experience of the vertice and extrest the vertice and vertice and extrest the vertice and vertice a

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		1 180 P	1980 r	1179		1			X.		(A)	(×)	15		7 7 2 7 2 7		- 12	1
							MAL	MANL PAL TUBLING		N IN F	TEMB F WE NOWTHING F HO	NE PER				*		
	All manufacturing industries	285,054	7.81,077	95.8 R. T		7.71, Parts	257 386		, 5% to 1	£ 25	ž	-			7,7,7	2.50 35.	5, 1%	
	Total, excluding trans-	180,834	178,45,	126,699	3.5,570	17301	125 23	17. 1,4]:	15 (1)	180 87			7.4.4.	les als	101.505	1,	155 500
	furable goods industries,	13, 863	. 11,.14	1.4. 3.1	Ç 7, 1 4.	415 146	×	Y X	x .	1			4	11 27			226 375	3 1
	Nondurable g ds hidustries, total.	11,791	11, 20	1	1, 038	11 5.		* ·	Γ.		13,837	:	đ n	3			**:	1111
								MANKET I - A	· VTECORII - V	WE COLES	. STEWN VA. ORDS	ė.						,
	Market categories Home goods and apparet Consumer staples	4.605	C.887.3	4,588	- Cga**	-	12.	Ξ.	138	. 114		:	:	.:	?	17967	- u	11,
	nets, except autoretive	\$157,718	156,965	15. 691	1.2.10 5	150 430	1 10	Less, Ress	154 60 4	7.1 . 7.1	ling soil] · s · u ·]1	1 . 1	2	147.384	144, 441	135 554
	construction materials, sup-	.0,686	20 176	20,772	20 420	21 40.	.11.11.	0.7	291,195	19. 7.6	47,00	E-5 - C-7	8,36.	17.0	2	23-430	20.089	1 2 41 4
	other naterials and supplies and informediate products	102,585	101,156	48,845	98.3 s.s	45,51b	44,066	88 697	089 6.	72 483	10 , 69.	130, 004	1.1	6 5.)	, î		£ .	ę.
	implementary series / Hease and dirable goods indus- fers. Capital goods industries. Nontectories.	1, h ts 18 5, 298 134, 978 48, 320	182,170 134,401 47,769	1,438 174,055 131,764	5,445 17.818 128.4.	177 1 49 175 1 49 175,1 189 45, 100	16.7, 46.4 117, 45.4 1.0, 1.08	165, 418 115, 730	(F / T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	181,917 185,167 185,167	- 1	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8919 1134	1 1 % (\$ t	101 248	104.19	- 4 C
								IN	INDISTRACEOUS	IS NO IN	AND IND SPRIES							
	burable goods audustry											-	pun.					
Ç	Store, clay and glass	1,004	2 456	2,904	2,840	1,03h	1.00.1	. H	. 44. 3	3, 3	6,0.0	451	**************************************	2 4 2	· ×	7	415	C 1942
1 1	Pricery mortals forfalling Blast formaces, steel mills	18,136	17,879	24,607	19, 481	30 024 18,680	51,902	12 de 12 de	17, 173	15, 511	18,518	10 1 N	28 35	#	8.7 # 1	29 12h 19 500	16.613	25 036
311-6	voitering and other primary	976,9	4,815	9,295	1,187	8,833	× 411 ×	*.11.*	7 7 7	7.	10,147	9, +	4 06.3	A 15.338	ς Ε	1 412	747	ت 1 - م
2	Fabricated cetal products	78,431	27,465	.8.2.7	2. 828	27,818	37,470	21,652	26 045	25.12	7. S. S.	45.	2. 2.	, 18 m,	E K 6.	24 503	25 0 34	5. 5
35 35	Machinery, except electrical rotal. Engines and turbines.	59,835	16,843	58,724	58,260	57, 123	57,296 16,896	56, 36 ; 16, 46 i	16,549	16, 380	16,812	16.875	15. 4. x	15, 74	34, 528 In, '14	16,705	25 25	73
356		8.911 7.611 7.077	8 '42 7,440 7,189	8,449 7,072 7,048	8,199 6,175 7,251	7,477 6,736 7,210	7,943	8,078 5,539 7,054	7,947 ,1000 b,840	2 524	8,840 7,47 7,349	9.716	7,027	21.8	8,2,0	8,117 5,280 6,801	\$ 48.00 11.7 18.1	7 123 > 083 5 851
See	footnotes at end of table.																	

Table 1 .-- ARUE OF WANTFACTURERS' UNFILLED ORDERS FOR INDUSTRA GROUPS, WARRY CATEGORIES AND SUPPLEMENTARN SERIES -- CONTINUES

(Willions of dollars)

		1	Not		* * 87	3 1:	12 984	50 G50	37 944	11 3.1	£ r	7
		ast a caths to war upon			10.201	9.84	7.7.7	×1, 37s.	vn 815	10 74.	1.1	1
ont.		t to diths	147.4	1	FO 8 05	4 0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	53 545	18 134	1) 7+8	1 ×	2,840
nal adjust	rlv.	20	1479		190 75	5.815	1.0.8	87 53h	61,471	1, 733	.1.	365
Aithout seasonal adjustment	Wentily		Nat. 1979		15 148	, 438 31n	357 16 111 9 944	101.3%	26,575	11,923	20	5,147
8111		+ ron(h)	14.9	1	35 255	, 423	15,204	103 6.0)	'8,810	11,064	5. 46.7	3 054
		1871	Jan.,	1	611.00	7,462	16,721 10,359	105,553	81,141	11,040	h. 188	, 114
		1	Feb. 1	INDUSTRIES Continued	67,073	334	12,047	10°. It	4	11, 18)	5801.	E.
Ī			1978		29,094	543	13,595 b,785	11,727	19,847	9,582	4,771	2,42,
			1978	NDUSTRY GROUPS AND	30.427	6,777	14,206	80 410	860, 90	11,005	5,091	2,433
	Quarterly		1,474	INDUSTRY	32,569	6, 900	15,132	89,138	63 199	10,947	5,423	3,401 3,197
D	9	;	11,19		33.906	7.275	535 15,489 4,186	383	69 763	10,906	5,643	3,401
Seasonally admisted			1979		34,715	7,376	15, 765 9, 569	48,505	2,914	11,098	5.8.3	3,271
Seasonal			Nov. 1979		35,224	7,465	372 15.969 10.044	100,101	15 144	11,065	8,898	3.263
	. A1		Dec.,		35 552	1,533	328 16,137 10,235	102,747	77,893	11,.79	5,992	3.283
	Monthly		Jan. 1,480°		30,382	7,516	16,596 10,636	104,125	79,718	11,079	89,,0	3,421
			1980 ^p		37,202	7,600	17,026	104,821	340,00	10,431	2.2	4, 327
		Industry group			Flectrical machinery, total Electrical transmission and	distribution equipment and industrial apparatus	Radio and TV	Transportation equipment	Aircraft, missiles, and parts	Shipbuilding and military tank tehicles	Instruments and related	All other datable goods
		SIC			36	98	366	3.7	372,0	3795	80.	521

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Shipments and measurers are the totals to the period and are adjusted for tradageday and calenday-mouth variations, unlilled opners and inventories are of the original and are not offenced for tradage.

Shipments and measurements are the totals for the period and are adjusted for tradageday and calendary-mouth variations, unlilled opners and inventories are of the original and are not offenced for tradageday. day on calendar-wouth variations. ** The separate industry categories as follows: ** The supplementary series are regionipings of the separate industry categories as follows:

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	office good with units or		10/10		***			- 0	1	** **	i	1		1	,			1
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	photo and chromotoch	4.	1.1,438	1 2,4 46	19, 55,	Ţ,	4	:	100.00	1		φ	1	7	;	. 35		· ·
	and intervedible profict	W W	1. 1. 1. 18	35. 1. X	38, 11	3 1, 16	37	7.	:	:	í	:	÷.	57 1.	r r	* * * * * * * * * * * * * * * * * * * *		
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			-	→ : :	-			T I	. Willes	. ÷	-		-		;	-	-	. 1
a 3	Drades good addition. Store, clay, and glas product		.63.	19	1 2	12	. 77.	- ; :		<u>.</u>	<u>.</u>	57.	· · ·	·	= =	F (2)	, , , , , , , , , , , , , , , , , , ,	1
23.1	Private tetals, total,	는 7 기급	20,035	10, 68 10, 64	10,672	17, 6, 1	3. 2.	17. M.	, 7, 4b, 4b, 48,88,4	.77.	: ï.	200			£ 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	28 LP.	r d	ŧ ;
	wtal	7 7 4 4	1,6.2	7,611.4	7, 138	7,195	6,408	P. 6 13	6. 4	0, 176		7,63		ş+ · · · ·	6,77.	6,783	0,836	5,5,3
J J	Mainteated retal prod., rotal. Wetal cars, barrels, and drum	14,414	19, 367	1.578	1,346	1,462	18, 380 1	.7.746	25 82 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	16,378		2 4.	1, 161	C + 12 + 1	1.37.	* 1	0.10±0.4	
2 27	Machinery, except electrical, total Figures and torbines.	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	37,276	200. 5 107.5 105.8	36, 37, ,,n034	7.00	185	2 7 7	2 4 4 5 2 4 5 5 2 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		1.5	37,40%	46,540 1,1484	D 7 4	14 P	¥ 1 £	80, valu	1 2 5
354	Construction, wining, and saterial handling equipment Metalsorking, achimery	7.6	2,364	2,34	3,406	8,107	2,203	7,435	7,037	6,772	111	2,378	7 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.266	7,45,	7,276	7,104	60 7 - 20 7 -
Sire	lootn			700.5			1000	0, 410	1,110				2001		-			

Table 4. -- WALTE OF MANUFACTURERS' INVENTORIES FOR INDISTRY GROUPS, MARKET CATEDORIES AND SUPPLEMENTARY SERIES -- CONTINUED

							(Williams	(Williams of dollars)	(5)									
					Seasona	Seasonally adjusted	T.						1111	With out seasonal adoustment	1 adoustme	n,		
			Mont	Wonthly			5	marterly						Monthly	1	1	1	
510	Industry	T. C.	Lon	o al	Nos	1111						Last 4 month	1 4,0		Last	4 + 101118	la Year aco	
		1980P	1-80r	1,474	916.	1974	6/61	1979	1578	111	Feb. 1980F	Jan. 1 480r	. 197	·		J. 474	78	
		1						INDUSTRY	RUITS AND	D INDUSTRIES	co.			. ,		. ,		
361,1	flectrical achinery, total Electrical transmission	1,1	21,018	20,080	20,013	T4, 48b	18,71-	.8,006	.7.066	17,0.2	1.	30,726	· · · · · · · · · · · · · · · · · · ·	*1 **	.7.1 3			.; .;
36.3	and instribution equipment and industrial apparatus	191	3,814	3,753	5,747	5, 5, 5, 2	3, 324 1	3,365	27 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	5,163	1	3,8,3	20	5,720	5, 31.6	334	1	
350	Radto and Ty	1, 74.7	0.00	1,042	454	163	185	1,013	1,423	1007	į¢.	474	* 5 5 7	40.5		f(: :	
	Electronic conjunction.	1	3,124	1,086	1,488	2,847	7,870	2,71+	8000	1 fr. 1	Ę	3,110	5,05,8	~ 6 2 4	Company of the Compan	2,55.4		, 1.1
37	Dansportation equipment, total Motor vehicles and parts	7,233	30,304	7,972	30,118	8,811	8,857	35,717	24,131	23,714	3,5	34,388	7,480	8,532	45	6.79°8	23,874	3,10 3,10 4,4
20.27	parts	18, 136	17,456	17,400	16,883	1,,481	14,696	13,176	12,343	11, 15,	1	.7,783	17, .02	.6,883	31.738	71.7.	17. 10.	
3,45	tank voluries	.113	.,112	.,180	2,263	2,064	.,67.	1,7,7	1.175	~ × · ·	1	2,040	2,052	7.77	,÷	1,137	54.1	,
351-4	Instruments and related products, rotal screening and engineering. Photographic goods.	7, 11 11, 11, 11, 11, 11, 11, 11, 11, 11,	5, 464	7,713 0	7, 345 5, 1 km 1, 41+	7,404	7, 336	7,035	90 F 75 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	197.0 197.0 197.1	- - - - - - - - - - - - - - - - - - -		7, 36	17.00	1 1 9	300		11
4.3%	All other brank goods industries	1.,01.	12,114	\$ 5° 1	11,943	.1,734	11,606	1,255	11,411	, i	7	12,130	- 62		11.40	6	7	9
97 16	A ndurable grows reductors For d and kindred product , t tal. Week product	F. 5	, 0, 20h	20, 326	14,082	45.7	1, 1, 160	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	17,262	10,784	Ž.			31,000	6.6.6	G * * 2	r 2.	÷
208 207 203-n,9	Bryonges. Fats and onls.	1,478	3,724	3,869	3,756	1,672	1,718	1,478	1,437	1,286		2,746	. 1987 1987 1987 1987 1987	5,745 5,745 7,145 7,145	3, 203	3.745 3.745 3.745 3.745		: i i i
77	Tobacco productis	3,494	5,557	3, 23	3,505	3,740	1,7,6	3,586	3,6, 4	3,4+4		3,77.	3,727		3,745	1.57	1	: :
;	Textule will predacts	7.	0,1448	10 × 00 × 0	5,745	3,686	570.	1,718	3,550	2 2 ' 0	· .	1, 436	t, e.,	: :		1		<i>'</i> :
- T-	Paper and allied jreducts. Folds. Phip, paper, etc.	5 1	0,84-	2,3.1	2,738	0,445	10 Sec. 10	8*p.*9	2,900	5,835	Ž.	1,524	1, 1	\$	7 P	5) .	
Į.,	Oh other paper container	3	r 95 * .	7,004	2,540	1,04.5	1,15,	2.2.40	577	2,710	11	0.00	1 1 1 1 1 1 1	0			7 K	· ·
0,1,0	Industrial chemicals, ca	18,4	17,66+	16,478	10,847	16, 362	13, 5, 1	70 77 7	****	. 2.2.10	1	18,27	1,130	77.78	, , , , , , , , , , , , , , , , , , ,	;	÷	
4,5%	opt parents	5	5,661	.,317	5,070	0.077	5,146	P 7 1	4,858	4,34		5,780	2, 5108	, Jun. 5, 807	, , , , , , , , , , , , , , , , , , ,	4, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	, r	
F, 92	Potroloum and coal products	7, 183	7,025	099,0	6,527	6, 554	5.347	5,063	5,423	80,408	7. Lo	7,056	4, 4, 4	0,046	5,41ba	- - - -	2	5
	B. C. C.	7 % 	4,862	4,750	4,747	4,462	4,870	4,707	4,65%	4,363	î.	4.470	7110° r	5.0.3		2007		7.7
212	Mil other acadaratic good	£	27.90	cld, 1	1.,654	, 582	.1,719	15.5	.0. 432	.0,773		64		 - -	i	1.42	1.	*
200	Prelitation. Bestsen.	7		-	1		-	~	1				-				*	

Technical months are that for the period and are although the trading-day and calendar couth variations of the said inventitie are as a very color, the period and are although the trading-day and explained are enhanced to represent the separate indistry categories as follows.
The supplementary error are represented the separate indistry categories as follows.

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		1980 P 148	6 1 2 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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(Based on seasonally adjusted data)

	Mor	th-to-mon	th		Avera	ige monthly	rates of ch	ange	Average,	1975-1979
	*	Dec	Nov			3 months		12 months		
Item and industry group	Jan Feb. 1980	1979 Jan 1980	Dec. 1979	Nov. Feb.		Aug Nov. 1979	May Aug. 1979	Feb. 1979 Feb. 1980	Average rise	Average
Shipments:										
All manufacturing industries	+0.5	+3.8	+1.6		+2.0	+0.4	+0.1	+1.0	+1.7	-1.3
Durable goods industries, total	+2.0	+5.0	+0.6		+2.5	-0.3	-0.6	+0.7	+2.0	-2,0
Nondurable goods industries, total	-1.2	+2.5	+2.5		+1.3	+1.1	+0.8	+1.4	+1.6	-0.7
Total inventories: All manufacturing industries	+1.1	+1.8	+0.8		+1.2	+1.0	+1.2	+1.2	+0.7	-0.3
New orders:										
All manufacturing industries	-0.6	+4.3	+2.2		+2.0	+0.9	-0.2	+0.7	+2.0	-1.5
Durable goods industries, total	-0.1	+5.5	+3.1		+2.8	+0.7	+1.3	+0.1	+3.3	-1.9
Nondurable goods industries, total	-1.1	+2.9	+1.2		+1.0	+1.2	+1.0	+1.3	+1.6	-0.7
Unfilled orders:										
Durable goods industries, total	+0.9	+1.6	+1.4		+1.3	+0.8	+0.2	+1.0	+1.3	-0.8

Table 7.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inve	ntoriess)	hipments r	atio	Unfille		-shipments backlog)	ratio ¹
Industry group	Feb 1980	Jan 1980	Dec 1979	Nov 1979	Feb 1980	Jan 1980	Dec 1979	Nov 1979
All manufacturing industries, total	1.54	1.53	1.56	1.57	3.53	3.54	3.67	3.66
Durable goods industries, total	1.95	1.98	2.04	2.04	4.17	4.21	4.34	4.34
Stone, clay, and glass products., Primary metals. Fabricated metals. Machinery, except electrical Electrical machinery. Transportation equipment. Instruments and related products.	1.36 1.57 1.97 2.62 2.06 1.93 2.23	1.27 1.54 2.04 2.66 2.08 1.96 2.40	1.35 1.69 2.09 2.67 2.11 2.03 2.38	1.34 1.64 2.08 2.78 2.11 2.02 2.37	0.78 2.39 3.15 4.57 3.57 12.40 1.74	0.72 2.34 3.24 4.63 3.60 12.40 1.87	0.77 2.51 3.36 4.71 3.65 12.59	0.75 2.54 3.33 4.83 3.71 12.48 1.84
Nondurable goods industries, total	1.08	1.06	1.06	1.08	0.78	0.75	0.82	0.82
Food and kindred products. Tobacco products. Textile mill products Paper and allied products Chemicals and allied products. Petroleum and ocal products. Rubber and plastics products, n.e.c.	1.00 3.10 1.38 1.23 1.36 0.52	1.01 3.35 1.42 1.14 1.27 0.50	0.98 3.43 1.49 1.23 1.24 0.50	0.99 3.42 1.46 1.18 1.28 0.51	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X) (X)	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X)

⁽NA) Not available. Preliminary. Frevised. (X) Not applicable. Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



1 current housing reports

Data on housing vacancies and housing characteristics

U.S. Department of Commerce BUREAU OF THE CENSUS

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Number of bedrooms
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Manufacturers' Shipments, Inventories, and Orders

MARCH 1980

U.S. Department of Commerce BUREAU OF THE CENSUS

M3-1(80)-3 For release 2:30 P.M. Wednesday, April 30, 1980

(All figures in text below are in seasonally adjusted current dollars.)

REVISION TO SEASONALLY ADJUSTED SERIES

Revised seasonally adjusted data for 1977-1979, reflecting recomputation of seasonal factors based on data through 1979, are scheduled for publication May 20. The preliminary April durable goods report, scheduled for release on May 21 and the all manufacturing report schedules for release on June 2, will reflect use of the new seasonal factors and include data for January through March on a comparable basis.

New orders for manufactured goods in March declined \$1.4 billion or 0.9 percent to \$154.1 billion the Department of Commerce, Bureau of the Census reported today. This followed a February decline of 0.5 percent. Most of the decreases occurred in durable goods industries, which in total dropped \$2.7 billion or 3.3 percent to \$79.1 billion. Orders for nondurable goods increased \$1.3 billion or 1.8 percent to \$74.9 billion.

Within the durable goods category, the primary metals and automotive industries reported the sharpest decline. Nonferrous metal orders declined \$0.9 billion or 15.1 percent to \$5.1 billion and steel orders dropped \$0.7 billion or 10.0 percent to \$5.6 billion. New orders for the motor vehicle industry dropped \$1.5 billion or 14.8 percent to \$8.5 billion. For the automotive assembly portion of this industry, new orders directly reflect shipments for the month since no backlog of orders is reported. All of the other transportation equipment categories reported new orders increases. New orders for machinery were up 1.0 percent to \$26.0 billion this month, as an increase of \$0.4 billion or 3.0 percent in the nonelectrical category more than offset a \$0.2 billion or 1.6 percent decline in the electrical group.

In contrast to the drop in total durable goods orders, new orders for the capital goods industries increased. The non-defense industries reported an increase of \$1.4 billion or 6.3 percent to \$23.5 billion, reflecting the increases in the non-automotive transportation equipment industries and in non-electrical machinery. New orders for defense capital goods increased for the second consecutive month, up \$0.3 billion or 9.0 percent to \$4.0 billion. The February increase was 5.6 percent.

Shipments of manufactured products showed a slight decrease in March, down \$0.7 billion or 0.5 percent to \$152.1 billion. Several of the durable goods categories reported more severe declines. The motor vehicle industry shipments for the month dropped \$1.0 billion or 10.1 percent to \$8.9 billion following increases in January and February of 4.1 percent and 5.4 percent, respectively. This is the lowest volume of auto-

motive shipments for a month since the \$8.8 billion reported in November 1976. Other substantial shipments declines occurred in the nonferrous metal industries, and construction materials industries, i.e., lumber and wood products, and stone, clay, and glass products, and fabricated metal building materials.

Shipments by the household durable goods industires as a group declined \$0.2 billion or 4.4 percent to \$4.9 billion. This is the largest decrease shown in that series since a 6.4 percent decline in January 1978.

Shipments for the nondurable goods industries increased \$1.2 billion or 1.6 percent to \$74.8 billion. The major increases occurred in the foods, chemicals, and petroleum industries.

The backlog of manufacturers' orders increased \$2.0 billion or 0.7 percent to \$287.7 billion. All industries contributed to the increase except the primary metals categories. Both steel and nonferrous backlogs dropped significantly, with steel down \$0.5 billion or 2.6 percent and nonferrous down \$0.4 billion or 3.7 percent.

Manufacturers' book value of inventories increased \$3.3 billion or 1.2 percent in March to \$238.1 billion. This follows increases in January and February of 1.8 percent and 1.2 percent, respectively. Virtually all durable goods industries contributed to the March increase except steel, which declined 1.8 percent. The increase in inventories of the aerospace industries of \$0.7 billion or 3.8 percent resulted from both defense and nondefense category increases. The value of nondurable goods inventories rose \$1.4 billion or 1.7 percent, with the petroleum industry contributing \$0.5 billion to the increase.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for April is scheduled for release on May 21, 1980 and the full report is scheduled for release on June 2, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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331	Primary metals, total	12,652	5,905	11,998	11,7%	17,61	17,3.1	7 3			A 11.17	7 1	17.1	11,453	11,301	5,277	140,123	120,34
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341	Habricated metal prod., total.	665,4	4,745	7	- 17.	. F. R. 3	.,,,,,	.7.1 5	4,7.1	7	70°	r ~ r	2.5 P. 1.5 5,721	7,933	8,394	(44, W.)	111, 46,	
	drums	606	833	876	803	Z.bla	8,77	1 1	î	28.5	714	5:4	87.5	F105	488	7.4	10,046	3,562
35 351 352	Machinery, except electrical, total. Englies and turbines	1,047	14,264	1,191	13,66.	15, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2	3, 336	3, 377	1,34	1,171	12,365	7 2 8	1,243	13,778	11,120	12,49,	157,695	137,114 12,044 11,197
354	material handing, and material handing equipment Metalworking mathinery General industrial machinery	2,872 921	902	2,784 851	2,705	2,674	2,337	7 1 7 10 7 1 7 10 7 1 7 10	3,010 1,040 1,265	927	797	846	3.300	2,668	45.4	2,44	9,497	8,108
See	See footnotes at end of table.															-		

Table 1. -- VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES -- CONTINUED

(Millions of dollar

							(Million	(Millions of dollars)	ars)									
				Seasonally	y adjusted							Without	out seasonal	il adjustment	not 1			
			Mon	Monthly		5	Quarterly					Monthly	1 y				Annial	
SIC	Industry	Me as	400	4	-		71.2	***		Last 4 m	months		Last	4 months ((a year ago)			9
		1980P	1980r	Jan. 1980	1979	1980P	1979	6261	Mar. 1980P	Feb. 1980 ^F	Jan. 1980	Dec. 1979	Mar. 1979	Feb. 1979	Jan., 1979	Dec.	1979	1978
								INDUSTRY	GROUPS, AND	D INDUSTRIE	INDUSTRIESContinued	per			-	-		
36	Electrical machinery, total Electrical transmission and	10,412	10,462	10,093	9,746	30,967	28,616	27,685	10,740	10,617	9,204	9,720	9,562	9,101	8,128	8,695	110,713	144,86
363 365 366 367	distribution equipment and industrial apparatus	1,933 1,089 684 3,014 1,867	1,761 1,183 708 3,134 1,799	1,716 1,295 632 2,805 1,680	1,592 1,159 585 3,087	5,410 3,567 2,024 8,953 5,346	4,987 3,394 1,745 8,704 4,605	4,947 3,208 1,786 8,088 4,623	2,007 1,162 645 3,208 1,906	1,883 1,164 711 3,145 1,826	1,609 1,077 520 2,598 1,608	1,534 1,064 606 3,183 1,563	1,760	1,727 1,003 701 2,536 1,457	1,259 859 583 2,281 1,243	1,47× 924 674 2,593 1,308	19,915 17,814 7,648 32,143	17,632
37	Transportation equipment, total	15,034	15,913	15,437	14,746	46,384	45,183 28,698	47,253	16,342	16,274	13,853	13,963	19,273	17,729	11,7481	15,677	139,461	185,883
3/2,6	parts	4,130	3,842	3,926	3,790	11,898	116,01	11,730	4,332	666'5	3,219	670.4	4,027	3,285	5,210.	3,558	43,80	37,542
3795	tank vehicles	851	888	878	845	2,617	2,361	2,177	839	798	769	976	636	14.4	21.9	751	9,693	7,87.
38 381-4 386	Instruments and related products, total	3,671 2,151 1,343	3,619 2,013 1,410	3,349 1,931 1,239	3,247 1,953 1,104	10,639	9,541	9,154	3,727	3,485	3,730	3,248 1,928 1,151	3,058 1,827 1,029	1,655	1,526	1,5741	36,253 71,082 12,757	31,560 18,143 11,245
24 39	All other durable goods industries	7,532	8,051	7,966	7,586	23,549	23,349	22,878	7,682	7,709	6,832	6,795	7,833	7,077	6,058	6,595	90,885	*1,3%
20 201 208 207 203-6,9	Nondurable goods industries: Food and kindred products, food to food t	20,673 4,973 2,374 1,819 8,566	20,203 5,073 2,554 1,648 8,197	19,984 4,837 2,544 1,675 8,198	20,729 5,286 2,426 1,611 8,631	60,860 14,883 7,472 5,092 24,961	61,115 15,610 7,156 4,904 25,220	59,231 14,895 6,966 5,068 23,989	20,939 4,903 2,397 1,818 8,883	20,391 4,905 7,348 1,745 8,664	18,903 4,770 2,114 1,599 7,698	20,352 5,292 7,292 1,558 8,554	19,875 5,424 2,323 1,648 7,906	19,037 5,277 5,005 1,435 7,583	17,507 4,990 1,794 1,542 6,778	18,473 5,211 1,979 1,529 7,283	234, 838 67,002 7,059 19,3.	211, 916 57, 087 24, 710 16, 783 84, 929
21	Tobacco products	1,081	1,126	1,063	1,027	3,270	3,137	3,212	1,056	1,161	1,302	1,052	985	3,637	991	3,491	1.173	11,941
26 261-3 265 264	Paper and allied products, total paper, etc. Paperboard containers. All other paper containers.	5,829 2,753 1,350 1,726	5,864 2,816 1,362 1,686	6,014 2,697 1,385 1,932	5,492	17,707 8,266 4,397 5,344	16,718 7,828 3,711 5,179	17,016 7,69? 3,650 5,674	5,947 2,810 1,380 1,757	5,969 2,813 1,381	5,705 2,583 1,302 1,820	5,156 2,488 1,110	5,639 2,610 1,251 1,778	5,379 / 2,345 1,182 1,852	4,735 11,13 1,110 1,894	55.4	26,745 24,745 14,555	
28	Chemicals and allied products, total	13,912	13,487	14,075	13,710	+1,+7+	39,733	37,967	14,959	13,837	12,918	12,533	13,121	11,704	10,782	· ·		1.4,443
283,4	except pigments	5,008	4,822	3,557	3,761	14,723	13,739	13,372	5,403	5,010	3,322	4,331	3,461	3,185	3,777	E	.1,7+3	34,13
29	Petroleum and coal products	14,795	14,271	13,938	13,279	+3,004	38,531	35,143	14,524	14,568	13,827	13,489	10,015	9,7)4	9116	2,47.6	134, 41	103,54.
53	n.e.c.	3,768	3,867	4,054	3,589	11,689	10,981	11,242	3,993	016'5	3,677	3,279	4,145	3,824	5,537 5	5,0,1	++, 7+.	19,430
31	All other nondurable goods industries	10,511	10,500	10,772	10,515	31,783	30,621	29,703	10,533	13,602	9,596	4,004	9,257	8,434	8,255	- J	116,234	194,107
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Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are adjusted for trading-day and calendar-month variations; unfilled orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders are the totals for the period and are adjusted for trading-day and calendar-month variations. trading-day or calendar-month variations. $^2{\rm The~supplementary~series}$ as follows Household durable goods industries - Household furniture; kitchen articles and portery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic kends, watters, and clock- and miscellanesus personl goods.

When the properties—The capital goods industries series is comparable to the previous Producers' Capital goods and the Defense Products (old series) categories.

When the products—Amendment, except electrical descluding farm machinery and equipment and machinery shops, electrical machinery (excluding household applicates). That of contractive comparation equipment, aircraft and aircraft and repairate machinery and repairate expense and equipment and repairate reports and electrical defense contractors in the following industries: Ordnance, comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 2, -- VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY CHOUPS, WARRY CATIGORIES AND SUPPLEMENTARY SERIES.

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				Seas	Seasonally adjusted	ted						With	without seas ma	nal adrustment				
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		198,p	1980	1980	1979	1 480P	1979	14.4	Mar.	Bath.	1 880	[ec.	Mar.	Fet.	18n.	Dec. 1978	7	, t
1							ALL	MANUFACT: RU	RINC, D'RABLE	22	NOVI RABLE GAO	Goods, Tital.			1		-	:
	All manufacturing industries: Total	154,059	155,424	156,131	144,758	465,614	.42 gw.	+30 5.6	1500,001	156, 463	145 720	142 986	17.5 27.	- 177	13, 056 1	1, 1, 1,	- 5	1 541 515
	Total, excluding trans-	138,130	138,922	15+ 318	132 Sex	.16,340	N. 98	6 × 8 2	3	14.1 4.1	117 114	11.	132 411	123 424	113 213 1	13.544 1.	57.00	1 881 454
	- :	82,383	83.427	84,280	79 57	060113	15 × 15.	.28,38	317.48	8, 17,	,4 16±	1,818	8 470	807 18	1, 1,1	1.929	313,015	7 68
	Chranie goods industries,	79,135	81,877	8, 633	1	9	7. ·	27. 17.	, e ,	*** *	* 00 ·	, 106	45 + .1	r r	,	. · ·	¥	- 17
	purable goods with unfilled	67,053	58,262	68,458	65,16	176,873	1.60 1.62	183 8:1	2,748	58. 25	54 335	5, 145	268 0.	+7.1.8	06, 09	54,245	761,533	5 H C84
	Nondurable goods industries, total.	74,924	73,547	34, 398	75,007	121,569	213,136	.05 14.	11111	T. 7	111	5 K 8 K 8 K 8 K 8 K 8 K 8 K 8 K 8 K 8 K	6.00		Ţ Ţ	3 H 51.	905 + 53	707 113
	industries with unfilled	15,330	15,165	15,621	14,157	44,117	. 162		13,644	15.447	14 525	13 5 42	14) 18	23.02	11 -11	12.654	171 502	153,796
	Industries without unfilled orders	565,65	\$8,382	18,476	57,850	176,43.	168 47.	161 455	277	38.283	· **	we it was	7	, 1 , 1	, s, s,	4. 33	£ 7.	3.1
					1	1		MARKET . A	ATHORITS AN	AND SUPPLEME	HAIARA SER	· · ·	1	4	,	1		Upper 14
	Market categories: Home goods and apparel	111,291	11.647	11 341 25,814	10,997	34,279	32,411	31 486	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	11,5%	4 435	9,479	10,758	10,100	7 22.136	, 7	125 055 298 454	114 554 268.261
	Equipment and defense prod- nots, except autometive	24,094	22,549	23,848	23,630	19,091	33 4 34	34.45	11,495	12,101	10 164	. 3, 488 4,410	15,140	23.1.1	18 5.77	001 0.1	258 44,	226 234
	Construction materials, sup- plies, and intermediate prods.	12,527	13,203	12,988	12,915	18,718	18.	1,548	1.,44	1	15 835	11 050	32, 487	11,050	4,743	11,240	1-9,383	131,381
	Other materials and supplies and intermediate products	69,436	786,982	70,482	720,00	.10,41)	144,431	187, 50%	7.,872	11, 105	58 339	51 484	62, 60	5.7.866	54,172	55 323	049 670	551
	Supplementary series: 2 Household durable goods indus- tries.	5,030	5,251	. 46.1	4,651	15,34.)	14.40.	115, 412	, , 1st	0.77	107	7	÷	Ť	7	* * * * *	25,414	11,443
	Capital gends industries. Nondefense. Defense.	23,462	22,087	27,334	22,860	81,346 69,421 11,125	75,486 27,28 10,808	3.65	3,413	. 74.5 22.5 23.5	5,600 22,934 3,545	3,849	24.368	26.937 23.332 3.505	12.527	25,044 14 995 4 150	299-216-25-25-25-25-25-25-25-25-25-25-25-25-25-	214,944
				1				IN	INDUSTRY GROU	IN AN IN	INDESTRIES	1						
32	Durable goods industry. Stone, clay and glass	4,087	4,184	4,506	4,156	12,777	12,379	12,279	4,180	3,904	3.914	3.562	3.480	3.387	3.204	3.570	48.145	44,164
33	Primary metals, total	11,821	13,430 6,181	13 811 5.873	11,415	39,362	35.284	13,351	13,098	14,193	13,669	10,903	14,318	13.846	13 497	11,341	142,882	128,002
333-5,9	Nonferrous and other primary metal products	5,101	900'9	6.618	5,244	17,725	15,672	14,822	5,715	6,154	6.227	5,205	5,461	5 061	4,786	4,754	59,802	49,500
34	Fabricated metal products	9,768	10,238	4,221	9,641	29,227	28,179	27,007	9,879	9.486	8,330	, 40 to	10,504	8,468	8,534	8,868	111.622	99,015
35	Machinery, except electrical, total,	1,073	14,394	15,028	14,130	3,485	3.169	3,228	15,788	14,966	13,930	13,802	15,864	13,924	12,126	12,782	163,304	142 857
353 354 356	Construction, mining, and material handling equipment Metalworking machinery General industrial machinery	2,846 1,092 1,318	3,062	3,077	2.956 877 965	3,731	8,410 2,852 3,376	8,276 3,118 3,248	3,047	3,108 1,126 1,195	2,977 982 1,195	2,734	2,648 1,049 1,287	2,771	2,574	2,592 784 894	32,301 11,486 13,491	24,377 9,683 11,242
See	See footnotes at end of table,																	

Table 2. --VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, WARKET CATEGORIES AND SUPPLEMENTARY SERIES--CONTAINED

				Season	Seasonally adjusted	p					Withou	Nithout seasonal adjustment	adjustmen	1 1				
			Monthly	yly		8	Quarterly					Wonthly				Τ.	THE PARTY OF THE P	
S1C	Industry	No.	1	Ton	Doc	,	1.0	111		Last - months	onths		ast	" minths a	a year ag			
		1980b	1980r	1980	1979	1980P	1979	1979	Mar. 1980 ^p	Feb. 1980 ^r	Jan. 1980	Dec. 1979	Nar. 1979	Feb. 1979	fan. 1979	1978	1979	1978
		1						INDUSTRY	Y GROUPS AN	GROUPS AND INDUSTRIES Continued	FSContin	ped	1					
361,2	Hectrical machinery, total Electrical transmission and	11,209	11,393	10,923	10,073	33,525	29,454	28,496	11,510	11,680	10,062	9.837	9.921	10,264	8.834	4,02%	115, '85	103.215
363	distribution equipment and industrial apparatus	1,960	1,885	1,699	1,660	5,544 3	5,147	5,048	2,070	2.048	1,090	1,519	1,765	1,050	1,747	1,408	20.653	18 356
365	Radio and TV		3.570	3.263	3.254	2,089	1,464	1,859	3.687	3.527	3.115	3.282	2.917	877	605	703	2,445	7 576
367	Hertronic components		2,032	2.081	1,768	6,249	5,271	5,000	2,216	2,194	1,926	1.660	1 775	1,785	1 014	1,477	20,416	10,655
37	Transportation equipment,	15,959	16,502	16,813	17,390	46,274	49,417	50,427	16,809	16,132	15,461	16,030	21,061	21,568	18,843	16,473	216,523	210,414
317,6	Aircraft, missiles, and	5,411	66.79	5,750	6,537	15,961	15,886	14,879	5,379	4,130	5.547	b.28h	5,344	6, 115	4,737	4 427	60,746	5.5 503
37.11	Shipbuilding and military tank vehicles	834	736	677	1,060	7 - 2 - 7	2 541	2.370	196	732	744	687	893	285	509	475	8, 454	9,245
ž	Instruments and related products	3,753	3.744	3.626	3,340	11,11.3	9,711	4,336	3,830	3,530	3,251	3,359	3.253	2.777	2 021	-16-7	37,144	32 054
25.39	All other durable goods industries	7,709	7.992	8,105	7,606	23,806	23,359	22,749	7,913	7,760	6.892	6,649	7.970	7,108	6.133	6.426	91.170	81 349
Ppre	Ppreliminary. FRevised.														1			

Shipments and now orders are the stalls for the period and are adjusted for trading-day and calendar-instance—must variations.
The supplementary series are right uppings of the separate industry categories as follows.

Heathould durable peeds industries - keathould furniture. Attents articles and potter, ruthery, handrear, mouseb ld appliances, radia and TL sphalming, 20-45, earlier, and least articles are presented and articles are comparable to the previous Producers. Appliad to the previous Producers and the least articles are supported as a state of the articles are all and alternate and engagement, and articles are all and alternate producers. Appliad and articles are appliad as a producer and engagement, arrested and articles are all and alternate particles are appliaded and articles are appliaded and articles are appliaded and articles are appliaded and articles are articles. Appliaded and articles are appliaded and articles are articles are articles and articles are appliaded and articles are articles. The articles are articles are articles are articles are articles are articles. Appliaded and articles are articles are articles and articles are articles and articles. The articles are articles are articles are articles are articles are articles and articles are articles are are articles and articles.

Table 6, by a sparwing page, builts sile, it into the first make, sto wise, by the best and

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			Southly	r Iv				211						4.4.				
ż	Indus try						:					•	1111		. a .		4 4 4	
		der.	 	ž .			.E	. :	1	, t			, :		e v		e ·	
			•				æ			V / // /	· ·	٠,						
	All manufacturing industries	147,653	. 4 , 73	**	* * * * * * * * * * * * * * * * * * * *					1	:		ī		-			1.
	T tal, excluding trans-	18.,416]H		;	:		-		*.		1	Ī			;		,
	lurable gods uchornes,	. 73,800	18, 10 3	*	:	3.	ī.				1.6	;	Ī		:		,	
	Nondurable r ds industries, total.	11,853	11, 11,	11, 20	. =	, , <u> </u>	1	ŀ	:	·.			į			,		٠
								"tues	Hussly &	. %	West to No.							1
	Market safegertes: Home gods and upparet	4,735	F	· · · · · · · · · · · · · · · · · · ·	r 1	:		:	, , ,		;	, Ņ			; ;	- 1		:
	lquipment and detense products, everyt unione five	159, 306	157,8 98	,	154,841	2	r	1, 1		,	r,	*	,	j	·, ;	Y A		;
	onstruction materials, sup-	768,07	250,488		;`.	÷	11.711	:	*	÷	7 7	·.	:	1.	5	†. -	2	
	Office naterials and supplies and intermediate products	. 171, 1	2	1.1,1.1	ŗ		;	:	,								j.	:
	Supplementary series ? Indiscount directors indus- feres. (aptial Reset Industries Nonteleuse Jutense).	3,709 185,563 136,761	18.	1272 221	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		· · · · · · · · · · · · · · · · · · ·	· · · · ·		* , * * *	, , , , , , , , , , , , , , , , , , ,	ę / : ·	\$ 9 . A	1197 121		7	1	17.7 17.7
					*	4		1 (8)	- 285 - R -	e WE No	·11 II·		1	. ,	1			1
	Darable goods andustry		1		-		je.	⊢	-		_			_				
Ç	Stone, clay and glass	3,083	7,94,	2, 151.	7(7	4, 1995.		7.5 kg.	7		3,118		, s	<i>x</i> .		, , , , , , , , , , , , , , , , , , ,	,' .	ř.
331	D.	3.1,060	14,135	25.57	11,590	,	: 4 = E	\$ * * * * * * * * * * * * * * * * * * *	* * *	11, 111	31,083	± 2	3.7		- 4	M	2 6 2 7	7 T
331-6	wetal products	695'6	4,531	9,815	Sport	· * *	2.	4,113	*****	7.	15, 15]	1.,1	7	÷	7, 7	014.	· · · · · · · · · · · · · · · · · · ·	1
3.5	Fabricated metal products	28,631	28,456	27,465	28,257	2, 818 x		21,612	7	1,1,	. H. 1138	ĵ,	***	34,123	025'	25 43.1	, c £	Ž.
351	Machinery, except electrical, rital, Figures and turbines and	16,802	54,882	16,443	58, 724	27.4	25.54	Sec, 565 16, 465	53, 33,	4 8	1 K	F 7	7 4	3 G 2 G	3.0	7	33,78	
2.5	raterial handling equip- ment. Wetalworking machinery	8,929	8,45h 7,054	8,742 ,440 7,189	8,444	230	7,443	8, 078 5, 694 7, 054	2,452 5,130 6,840	7.35 8	7,734	2,525	535 273		5 C C 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ^ 4 2 + 7 x ^ 2	4 11.7 6,801	
See	See footnotes at end of table.																	

TABLE 3 .--VALUE OF VANITRACTURERS, IMPILLED ORDERS FOR INDICITEY ORD PS. MARKET CATEGORIES AND SUPPLIABIVERS SERIES --CONTINGED

						50	(Williams of dollars)	dollars)									
-					Seasina	Seasonally adjusted	p						Anthe	Authorit seasonal admistrent?	1 admistre		
			Monthly	hly			10	Quarterly						Trathly			
	Industry group											Last a months	nth		4.4	·	ast a outher a coat her
		Mar. 1980 ^p	Feb.	Tan.	1474	111	1479	1474	×1.51	E 2	v r. lesop	ret Lestir		7 7	1500 T	143	
+ -								INDUSTRY G	INDUSTRY GROUPS AND INDUSTRIES Continued	INDI STRIES	Continue	1	1				
	Electrical machinery, total	38,109	37,314	35, 38.	15,552	м, 215	2 2	32,569 (0,4,7			971,75 17,951 37,179		54,114	- K ''s	5.,4.1	- ;	· · · · · · · · · · · · · · · · · · ·
	distribution equipment and industrial apparatus	7,667	7,6+1	7,5161	7,533	1,375	7,275	6,500	4,777	3	7,690	200	31	7		7	7.7
	Household appliances	297	322	528	238	767	5 × 5	50.7	7 .	141	350	100	1.00	143			
	Communicative equipment	17,635	_	14,536	14,13	15,245	15,449	1.,132	14, 100	15, 4	17,382	12,100	7. 1.	De	Ť.	5.	7
	Fleetronic components	11,137		10,536	1 ,235	4,649	4,1.84	4,532	1 68.7	9.	11, 137		17,354	<u> </u>	•		-
	Transportation equipment,	135,637	134,713	1 14,135	135,743	45,500	15,333	54,145		, ,-	11.5,573	1 5,41	1 ., 10 \$	1 15, 44 1		5. *1	•
4	Aircraft, missiles, and parts	81,956	31, 1, 1, 1	74,718	7.,415	., .114		1.144	1	515, x " 127	* , 317	7. 1. Tr	. 141 .	Ŷ,			1
	tank vehicles and enlitary (10,909	10,925	11,074	11,. %	ţ.		1	П, ч.	<i>i</i> .	1864-1 "514	, , , , , , , , , , , , , , , , , , ,		-^	î.	:	<i>)</i>
	Institution to and in lated	6,476	1 1 1	£ 2.	7	0,87	÷	Ť,		;;	, a			÷,	1	~	3
	Mi other densite goods	538	3, 36.2	1,43	1,133	1, 1	10,401	161.	25 7	7	5. 54. 5	7 4	5, 154 j 5, 114	7	100	·	1.

"protection "features are the totals, for the period and are adjusted to trading-day and calendary only variation.

As calendary-events where the course, the convergence of the calendary of the calendary expensive the calendary events are allowed.

Hussehold dayable goods undustries - Household furniture, kitchen arracles and patters, curleyy hardreads, and hardrane, needed on an and the quitality solves and 1 sk not a culture of The supplementary series are regrampings of the separate industry categories as follows:

proposal condi-proposal condi-digital code and control of additive and other control of the proposal condi-ciparial code and control of additive and other control of the proposal condition of the control of additive and other control of the condition of the

Newtoning in 1976, the listed what for the lederal covernment probability affected the shapings of contracts and chost transporters, Associated as the state of the state of the shaping the services of the state of the state of the shaping the services of the state

TABLE 4. -- VALUE OF VANUTACTURES INTENTIALS FOR INDICATES GROUPS, WARRY CALFFEATH CARES STREET, STREE

(Williams of dollars)

					Seasona	Seasonally adjusted	D						Alth	Althout seawonal adoustment	1 adiustos	1 1		
			Monthly	hly			7	quarterly		ŧ	1			Yonthic	1 2			
SIC	Industry	Mar.	Firb.	Jan.	Inc.	1111	II	ha	II.	III		1.a-t + 1	dta c		Last	4 minishs in	a rear ag	
		1980P	19+0r	19+0	1979	1979	1979	1979	1978	1978	Mar. 1980P	Feb 195 E	far 1950	Dec 1979	Mar. 1979	Feb 1979	9761	D. c.
	1			-			1 13	WAY BATTERY	N , SPEABLE	ANT NAC	"FAM" + 1	is. I IM						Mark 2012
	All manufacturing industries Total	. 58,048	234,845	. 32,002	2.7,855	2-1,417	234,339	105,589	195,041	193.754	. 3.5.	136,732	233,347	227,058	960,705	305,426	.1. 35	926, 791
	Total, excluding trans-	201, 103	204,171	201,698	19~,014	19, . ** 5	186,949	179,87.	173,910	170 051	F 44 1 7 7 7	5,8.8	.01,159	198,216		179,242	1779	174,135
	Total for industries with unfilled orders	104,294	162, 377	160,401	157,667	152,000	147,943	1-1,-15	135,198	13.,40.	11:,13:	16-,5:4	16.1,44.5	156,5.9	142,325;	140,566	137.711	13473
	Durable goods industries, total,	157,177	155,279	153,799	151,376	145,927	141,700	135,278	119,.26	126,108	118,70	154,47.	154. 97	150, 5.1	136,660	135,093	132,05+	128,405
	Ourable goods with unfilled orders	146,134	144,315	142,749	140,286	135,529	131,51	1, 53.	1114, 14	111, 435	Iw., 143	145,111	1+2,5-7	139,4 69	126,256	124,740	122,178	118,875
	Vondurable goods industries,	80,921	79,566	7803	16,479	75,490	7.,619	20, 311	58.81b	12,657	Ko, est	80,288	79,450"	77,317	70,436	70,313	70,283	Pre, 574
	Nondurable goods with intilled orders,	18,400	18,062	17,657	17, 181	16,914	15,673	16,574	15,658	15, 40	10,	19,488	17,498	17,390	16,069	15,820	15,583	15,40,
						•	•	MAKKET CA	ATENORIES A	WE SITEMBE	TVIAL SERIES	·			,			
	Market categories Home goods and apparel	18,0+2	17,886	17,8:1	17,530	17,501	17, 598	17,373	16,956	16,862	- 1	17,71.	17,496,30,438.	16,900	17.528	7,133	17,008	15,427
	ducts, except autometive	10,209	63,678	63,01.	61,514	58,25-	55,631	57.54.	50,.85	18,326	E 1	10,424	10,554	61.060	53,266	52,473	51,133	19,935
	plies, and intermediate	10,147	19,684	19,488	19,496	18,887	18,982	17,944	16,993	16,506		10,036	19,581	19,348	18,369	18,122	17.380	16,866
	Other materials and supplies and intermediate products	44,434	93,485	91,758	89, 318	26.1, 18	82,328	79.025	77,211	75,541	1 2 1	94,076	92,575	12,047	79,334	78,871	78,+06	77 552
	Supplementary series Housebold durable goods industries	9,300	9,247	9,253	9,169	8,881	8,828	8,831:	8,692	8,657	4, 531 73, out	9,218	9,088	8,880	8,851	8,761	8 680	8,427
	Nondefense,		61,371	9,613	9,076	8,519	53,730	50,540	48,203	6,890	62,889	61,793	60,457	58,966	51,117	50.157	7.291	47.888
								GNI	TSTRY GROUT	PS AND INDI	PSTRIES							
32	Durable goods industries Stone, clay, and glass products	5,964	5,793	5,654	5,577	5,445	5,372	5,144	4,826	4,741	6,105	5,938	5,723	5,541	5,266	5,226	765,	767.5
331	Blast furnaces, steel mills, Nonformers and other conners.	20,248	20,302	20,035	19,905	19,065	18,578	17,761 9,823	17,962	17,573	20,255	20,427	20,390	20,153	17,766	18,018 9,939	18,161	18,187
		7,777	7,628	7,612	7,609	7,195	906'9	6,638	6, 411	0,476	7,409	7.757	7,650	7,525	6,750	6,772	6,783	6,836
34.1	Fabricated metal prod., total. Metal cans, barrels, and	19,671	19,474	19,367	19,279	18,682	18,584	17,796	16,834	16,378	19,962	19,568	19,271	18,997	18,056	17,571	17,048	16,616
	drums	1,472	1,518	1,565	1,578	1,362	1,380	1,293	1,211	1,204	1,638	1,548	1,494	1,360	1,440	1,326	1,294	1,045
35 352 353	Machinery, except electrical, total. Engines and turbines. Farm machinery and equipment Construction annine and	37,713 2,711 3,130	37,468 2,686 3,088	37,276 2,678 3,111	36,502 2,701 3,102	35,525 2,632 2,889	34,120	32,509	30,925 2,461 2,583	29,705	38,277 2,704 3,308	37,959 2,713 3,264	37,428 2,676 3,182	36,530.	33,012 2,484 2,847	32,295 2,463 2,809	31,582	30,940
354	material handling equipment Metalworking machinery General industrial machinery	8,251 2,476 3,713	8,295 2,391 3,701	8,430 2,369 3,642	8,134 2,312 3,661	8,107	2,203	2,082	7,037	6,752	8,465	8,503	8,506 2,378 3,653	8,289 2,298 3,606	7,628 2,091 3.341	2,067	7.276	7,164
See	See footnotes at end of table.																	

(Millions of dollars)

					Seasona	Seasonally adjusted	P						Without	out seasonal	al adjustment	ant 1		
			Mon	Monthly			G,	Quarterly						Monthly	hly			
SIC	Industry	169.1	Foh	Tan	Poor	111	1-1	-	2			Last 4 m	months		Last	4 months	(a vear ago)	
		1980P	1980r	1980	1979	1979	1979	1979	1978	1978	Mar. 1980P	Feb. 1980r	Jan. 1980	Dec. 1979	Mar. 1979	Feb. 1979	Jan. 1979	Dec. 1978
								INDUSTRY	GROUPS AND	D INDUSTRIES	ES							
361,2	Electrical machinery, total Electrical transmission	21,710	21,395	21,018	20,585	19,486	18,714	18,066	17,066	17,012	21,792	21,291	20,726	20,241	18,129	17,653	17,404	16,779
363 365 366 367	and industrial apparatus. And industrial apparatus. Household appliances. Radio and TV. Communication equipment. Electron.c components	3,865 2,180 1,048 7,763 3,237	3,902 2,145 1,044 7,480 3,242	3,819 2,092 1,030 7,418 3,129	3,753 2,106 1,042 7,122 3,086	3,632 1,967 963 6,595 2,897	3,524 1,956 984 6,129 2,850	3,365 2,025 1,013 5,833	3,248 1,953 1,031 5,431 2,508	3,163 2,024 1,005 5,401 2,531	3,890 2,197 1,012 7,819 3,253	3,912 2,134 976 7,507 3,216	3,813 2,065 974 7,301 3,110	3,758 2,014 1,005 7,021 3,068	3,387 2,041 979 5,875 2,728	3,306 1,979 997 5,712 2,668	3,284 1,934 1,035 5,636 2,611	3,252 1,869 5,356 2,495
371	Transportation equipment, total. Motor vehicles and parts	31,459	30,674	30,304	29,881	28,534	27,390	25,717	24,131	23,714	31,731	30,910	30,388	29,511	25,947 8,848	26,134	25,107	23,874
3731 3731 3795	Alreraft, missiles, and parts	19,041	18,339	17,956	17,400	15,481	14,696	13,176	12,593	11,532	19,176	18,423	17,783	17,102	13,267	13,238	12,737	12,391
38 381-4 386	Instruments and related products, total. Scientific and engineering. Photographic goods.	8,264 5,595 2,174	8,128 5,472 2,173	8,026 5,369 2,175	7,713 5,259 1,971	7,456 5,021 1,926	7,336	7,036	6,468 4,243 1,752	6,292	8,257 5,635 2,140	8,130 5,494 2,158	8,021 5,417 2,136	7,580	7,023	6,790 4,454 1,850	6,629	6,352
25	All other durable goods industries	12,148	12,045	12,119	11,934	11,734	11,606	11,249	11,014	10,693	12,370	12,247	12,150	11,768	11,461	11,406	11,128	10,863
20 201 208 207 203-6,9	Nondurable goods industries: Food and Kindred products, Ordal Poducts Fits and oils. All other foods.	20,300 1,812 3,762 1,682 11,345	20,466 1,885 3,789 1,942 11,096	20,206 1,982 3,729 1,929 10,855	20,326 1,990 3,869 1,888 10,875	19,856 1,753 3,679 1,704 11,070	19,106 1,716 3,614 1,605 10,590	18,119 1,650 3,478 1,598 9,896	17,262 1,673 3,453 1,437 1,437 9,308	16,784 1,568 3,236 1,384 9,311	20,126 1,830 3,857 1,813 10,937	20,675 1,909 3,887 2,070 11,152	21,011 1,959 3,796 2,134	21,024 ' 1,869 ' 3,830 2,141	17,924 1,667 3,564 1,722	18,036 1,655 3,505 1,760	1,648	17,858 1,574 3,418 1,635 4,88
21	Tobacco products	3,549	3,496	3,557	3,523	3,746	3,716	3,586	3,619	3,449	3,715	3,762	3,771	3,727	3,754	3,796	3,870	3,829
7 4	Textile mill products	6,061	5,970	5,948	5,848	5,686	5,645	5,718	5,666	5,606	6,162	6,063	5,936	2,694	5,813	5,814	5,715	5.529
261-3 265 284	ruper and allied products, total. Pulp, paper, etc Paperboard containers. All other paper containers. Chemicals and allied products.	7,325 2,470 1,980 2,875	7,104 2,409 1,952 2,743	6,842 2,355 1,918 2,569	6,779 2,321 1,899 2,559	6,422 2,137 1,843 2,442	6,344 2,090 1,785 2,469	6,045 2,053 1,752 2,240	5,875 2,006 1,710 2,159	5,839 2,005 1,710 2,123	7,275 2,471 1,969 2,835	7,073 2,408 1,933 2,732	6,859 2,352 1,899 2,608	6,722 2,313 1,863 2,546	6,005 2,055 1,741 2,209	5,875 1,987 1,710 2,178	5,860 1,972 1,729	1,999
281,6	Industrial chemicals, ex-	18,559	18,365	17,864	16,978	16,582	15,901	15,548	15,429	15,235	18,852	18,776	18,227	17,280	15,796	15,870	15,809	15,719
283,4	Drugs, soap, and tolletries.	5,973	5,461	5,382	5,277	5,021	5,196	4,482	4,591	4,590	5,479	6,054	5,780	5,398	4,487	4,934	4,654	4,791
30	Petroleum and coal products Rubber and plastics products,	7,777	7,241	7,025	6,660	6,354	5,347	5,063	5,423	5,408	7,518	7,133	7,056	6,816	9.88.5	5,06~	5.4)3 !	5,551
27.2	All other nondurable goods industries.	4,973	12,085	11,899	11,615	11,882	4,870	4,707	4,602	4,563	5,109	4,964	079,4	4,804	4,837	4,755	4,731	4,653
	183																000101	10,010

Household durable goods industries - Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and IV, ophthales, goods, wateries, and clocks and miscellaneous Shapements and now orders are use orders are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are adjusted intrading-day or end, variations are regroupings of the separate industry categories as follows.
The supplementary series are regroupings of the separate industry categories as follows.

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Optital goods undustries - The optital goods industries series is comparable to the previous Produces of Capital Goods and the Differe Products of State (recording Four weeklands) of Applications (recording Four weeklands) of Applications

for any kill was for liven to a compart at an and

	1	-	75	,	676,79	4,794	18,187	16,779	23,874	10,863	57. 1	4,653		18.757	1,619	1,862	8,709	4,927	1,891	17,138	5,544 1,338 1,558	869,81		100	94,870	6,498	7,725	2,943	2,463	2,485	814		3,717	1,916	5,048	7,969	4,127	1,518	1,801	2,281	8,973
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			35		207,096	136,660	18,056	18,129	7,023	11,461	15,796	4,837		71,357	43,394	6,463	6,394	5,190	2,097	27,963	1,441	19,132		69,294	58,400	7,209	15,140	3,158	10,894	2,527	6,134		66,445	34,866	5,009	8,707	3,638	1,768	31,579	2,021	19,641
	ut seaso		Dec. 1979		227,658	5,541	18,997	20,241	7,580	11,768	17,280	4,804		79,638	48,963	7,742	6,736	5,906	2,399	30,675	1,700	21,129	7	77,669	65,997	7,789	16,908	3,350	2,012	2,452	6,338		70,351	35,361	5,399	8,854	3,674	1,831	34,990	3,087	20,970
	Witho		Jan. 1980		233,547	5,723	19,271	20,726	8,021	12,150	18,227	49,197		81,023	49,712	7,909	10,788	5,960	2,658	31,311	1,701	21,383	H	79,843	808 801	7,939	17,405	3,533	12,035	2,646	891		72,681	2,656	5,584	9,235	3,732	1,830	36,104	3,265	21,406
		1	Feb. 1	- •	6,758	56,470	9,568	1,291	8,130	2,247	8,776	4,964		1,551	9,924	7,850	6,832 0,989	5,068	2,594	1,627	1,817	1,473	-	1,194	830	,118	,387	,647	,236	2,729	867		,013	,588	,689	471	,820	,889	,425	3,222	,396
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100			= 1		205,589	5,144	17,796	18,066	7,036	20.311	15,548	4,707		71,282	43,570	6,602	9,081	5,227	2,140	27,712	1,452	18,848		68,638	771	7,124	8,491	3,128	10,982	2,497	6,196		699'59	34,052	4,915	8,443	3,636	1,768	31,617	2,124	T3,747
			= 1		214,339	5,372	18,584	18,714	7,336	72.639	15,901	4,870		73,285	44,885	6,751	9,531	5,483	2,226	28,400	1,504	19,273		72,796	842	600 40	8,908	3,216	11,335	2,474	6,353		68,258	2,495	5,158	8,969	3,904	1,894	32,904	2,324	660,02
			1111		221,417	5,445	18,682	19,486	7,456	75,490	16,582	4,962		75,751	2,040	656,9	1.4	5,668	2,274	29,369	1,774	70,012		75,718	826	7,696	9,434	3,326	11,890	2,681 1,856	6,500	4 3-	876 69	2,579	5,161	9,203	3,904	1,856	8,028	2,724	000,13
			1979	į)-		5,577							1	78,915	48,818	7,463	10,725	5,925 8,304	2,388 5,018	30,097	1,692	069 07	-	78,525	821	7,983	10,057	3,427	11,766	2,437	6,452	1	0,415	2,539	5,370	8,854	3,701	4,316	8,543	2,925	0,747
	da.		Jay.			5,654								80,312	49,431	7,744	10,771	6,010	2,680 5,158	30,881	1,680	1 150,12	ĺ	79,924	796	8,089	10,163	3,506	12,045	2,657	6,380									3,200	
			i.		234,845	5,793	19,474	21,395	8,128	79,566	18,365	4,839		81,393	50,065	7,922	10,935	6,115	2,648	31,328	1,793	(91,12)	1	80,739	798	8,116	10,416	3,616	12,279	2,151	6,558		72,713	20,745	5,519	9,258	3,709	4,309	35,959	3,297	010479
			Mar. Les. P		238,098	5,964	19,671	21,710	8,264	80,921	18,559	4,973		82,423	50,366	7,903	10,951	6,238,	2,560	32,057	1,836	186,12	ľ	82,162	814	8,196	10,538	3,719	12,608	2,353	6,663		73,513	2,863	5,464	9,207	3,850	4,341	36,256	2,222	000677
		Industi			All conditioning and take a first and	four, clay, and glas product	Substitution to the substitution of	His chart at was him in	In the same of the	Sopplarity good take from the	Charte de any diffed protect concerns	Rubber and plastics products, n.c.c		All manufacturing industries, total	Durable goods industries, total	franch of the second	Non-healthcal A filter A.	Transportation equipment	All other durable goods industries	Nondurable goods industries, total	Petroleum and coal products	All other honderante goods thouserfies		All manufacturing industries, total	Stone, clay, and glass products	Fabricated metals	Electrical machinery	Instruments and related products	ondurable goods industries, total	CHEMICALS and MALKO Products	All other nondurable goods industries		All manufacturing industries, total	Stone, else, and wine products	Primary metals	Name les trateal machine ry	Transportation equipment	All other durable goods industries	ondurable goods industries, total	Rubber and plastics products,	P. T. Collect

Table 6.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

	Mot	th-to-mon	th	Avera	ige monthly	rates of ch	ange	Average,	1975-1979
			Dec		3 months		12 months		-
Item and industry group	Feb Mar. 1980	Jan Feb. 1980	1979 Jan 1980	Dec. 1979- Mar. 1980	Sept Dec. 1979	Jun Sept. 1979	Mar. 1979-, Mar. 1980	Average rise	Average decline
Shipments:									
All manufacturing industries	-0.5	+0.6	+3.8	+1.3	+0.7	+1.0	+0.6	+1.7	-1.3
Durable goods industries, total	-2.4	+1.8	+5.0	+1.5	+0.1	+0.6	+0.1	+2.0	-2.0
Nondurable goods industries, total	+1.0	-0.7	+2.5	+1.1	+1.4	+1.4	+1.1	+1.6	-0.7
Total inventories: All manufacturing industries	+1.4	+1.2	+1.8	+1.5	+1.0	+1.1	+1.2	+0.7	-0.3
New orders:	0.0	0.5	4.2	1.6	+0.6	+1.1	+0.5	+2.0	-1.5
All manufacturing industries Durable goods industries, total	+0.9	-0.5 +0.2	+4.3	+1.6	+0.1	+0.8	-0.3	+3.3	-1.9
Nondurable goods industries, total	+1.9	-0.7	+2.9	+1.4	+1.2	+1.6	+1.2	+1.6	-0.7
Unfilled orders: Durable goods industries, total	+0.7	+1.0	+1.6	+1.1	+0.8	+0.3	+0.9	+1.3	-0.8

Table 7.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

	Inve	ntoriess	hipments ra	atio	Unfille	ed orders	shipments backlog)	ratio ¹
Industry group	Mar 1980	Feb 1980	Jan 1980	Dec 1979	Mar 1980	Feb 1980	Jan 1980	Dec 1979
All manufacturing industries, total	1.57	1.54	1.53	1.56	3.58	3.54	3.54	3.67
Durable goods industries, total	2.03	1.96	1.98	2.04	4.23	4.18	4.21	4.34
Stone, clay, and glass products Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products.	1.51 1.60 2.05 2.61 2.09 2.09 2.25	1.38 1.57 2.00 2.63 2.05 1.93 2.25	1.27 1.54 2.04 2.66 2.08 1.96 2.40	1.35 1.69 2.09 2.67 2.11 2.03 2.38	0.85 2.38 3.30 4.48 3.66 12.22 1.76	0.77 2.38 3.19 4.56 3.57 12.36 1.77	0.72 2.34 3.24 4.63 3.60 12.40 1.87	0.77 2.51 3.36 4.71 3.65 12.59 1.85
Nondurable goods industries, total	1.08	1.08	1.06	1.06	0.78	0.77	0.75	0.82
Food and kindred products. Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.c.	0.99 3.28 1.44 1.26 1.33 0.53	1.01 3.10 1.39 1.21 1.36 0.51 1.25	1.01 3.35 1.42 1.14 1.27 0.50 1.20	0.98 3.43 1.49 1.23 1.24 0.50	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X) (X)	(X) (X) (NA) (NA) (X) (X) (X)	(X) (X) (NA) (NA) (X) (X)

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Shipments, Inventories, and Orders

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JUL 29 (EE)

APRIL 1980

FOR RELEASE 3:00 P.M. MONDAY, JUNE 2, 1980

(All figures in text below are in seasonally adjusted current dollars.)

The January through April data presented in this report are consistent with the revised seasonally adjusted data for 1977-1979 released May 20 by the Department of Commerce. These revisions reflect recomputation of seasonal factors based on data through 1979. A copy of this publication may be obtained by calling (301) 763-2502.

New orders for manufactured goods in April declined \$8.3 billion or 5.5 percent to \$143.8 billion the Department of Commerce, Bureau of the Census reported today. The last time a decline of this magnitude occurred was December 1974, when orders fell 6.8 percent.

New orders for durable goods were down \$5.1 billion or 6.6 percent, revised downward from the earlier reported 4.2 percent, to \$72.5 billion. Virtually all industries were down significantly except aircraft. For that industry new orders increased \$2.9 billion or 53 percent to \$8.5 billion. New orders for all of the other durable goods industries declined 11.1 percent.

For nonelectrical machinery, new orders (which includes cancellations) amounted to \$11.7 billion, declining 16.2 percent from March. This is the lowest volume recorded since the \$11.5 billion level in June 1978. Steel producers reported a decline in orders of \$1.1 billion or 20 percent following a March decline of 12.4 percent.

In the capital goods industries, new orders for nondefense capital goods declined \$0.4 billion or 1.8 percent to \$22.2 billion. Changes in new orders reported by the industries comprising that category showed mixed patterns. The large nonelectrical machinery decline was substantially offset by increases in communication equipment, aircraft, and aircraft parts. New orders for defense capital goods increased for the third consecutive month. April orders for that category were valued at \$4.9 billion, up 5.8 percent, following a 25 percent increase in March and a 9.8 percent increase in February.

New orders for nondurables were down \$3.2 billion or 4.3 percent to \$71.3 billion, with all industries except tobacco declining.

Shipments by manufacturers in April were off \$6.0 billion or 4.0 percent from the March level of \$150.1 billion. Again, virtually all industries, durable and nondurable, were down. In the durable goods categories, motor vehicle manufacturers reported shipments of \$8.2 billion, down \$0.6 billion or 6.8 percent; primary metal producers, both steel and nonferrous, were down \$0.8 billion or 6.3 percent; and machinery manu-

facturers, both electrical and nonelectrical, were down \$1.2 billion or 4.8 percent. Only the aircraft, stone, clay, and glass, and miscellaneous durable goods industries reported increases.

In the nondurable goods category, all industries except tobacco and printing contributed to a shipments decline of \$2.3 billion or 3.1 percent. The foods industry reported the sharpest drop, down \$1.0 billion or 4.8 percent to \$19.4 billion. Chemical and petroleum producers each reported \$0.5 billion or nearly 4.0 percent declines.

With the significant decline in new orders and shipments, the backlog of unfilled orders showed little change from the March level of \$286.9 billion. A \$4.2 billion or 5.2 percent increase in the aircraft industry backlog and a \$0.9 billion or 2.5 percent increase in the electrical machinery backlog were offset by declines in nearly all other categories.

The book value of manufacturers' inventories rose \$4.1 billion or 1.7 percent to \$242.6 billion in April. This is the largest 1 month industry increase since the truckers' strike in April of last year when the increase was also 1.7 percent. In the durable goods area, the machinery and transportation equipment industries reported 2.6 percent and 2.3 percent increases, respectively. Of the \$1.0 billion increase in nondurable goods inventories, the chemical and petroleum industries accounted for \$0.9 billion.

The largest part of the inventory increase was accounted for by finished goods which increased by 2.3 percent for the month, while raw materials and work-in-process inventories increased 1.5 percent and 1.4 percent, respectively. The inventory to shipments ratio for April is calculated at 1.68. The ratio has been averaging about 1.54 for the last year.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for May is scheduled for release on June 20, 1980 and the full report is scheduled for release on July 1, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by the Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamsp not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price 30 cents per copy, \$3.60 per year.

Table 1. --VALT OF MANTACHTRERS' SHIPMENTS FOR INDISTRA GROUPS, MARKET CATEGORIES, MG SUPPLEMENTARY SERIES

1			1	7	!		1,5,14	284,235	10,719	35,.35	25., 148	٠٤٠٠,		15,151	74.74		34,775	36, 77 1 11, 57 4 11, 57 4		4.4.4	964,5	. 8, 885	35,488	641'5	51,518 4,634 4,374	10,577
		Vrnant		198	1	- 254, 764			1)4,7,7	11+,+	(1F.17)	604,160		134		1,7	1,5,873	14.55 5.55 5.55 5.55 5.55 5.55 5.55 5.55		2.5	51,746	7	37,172	3,174	54,446	11, 393
	ì		t	ue 7	1	· +	- 01/15	128, 321	12,70	- 12			1 !	3 1	11, 501	*; 7*	75,747	10, 30 (5), 31 (5), 33 (5), 33	1	3,1+7	1,557	4,138	2, 4, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	688	11,120	2,326
	int '		- months (a year ago)	Feb. 1979	1	134	118,841	72,247	, 2, +b+	e e	41,13	r _x	1 '	* *** * ***	F + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 +	r ,	177,80		1	3,386	11,453	- 242.+	8,721	808	13,078	2,668
	Without seasonal advustment		+ months (Mar. 1479		148,034	128,741	74, 11.	80,421	7	10.	12.14	4 1	- - - - - - - -	10,482	2	13, 34	23,738		3,489	13,1-2	5,143	9,430	875	14,144	2,806
	out season	1y	Last	Apr.		137. 33	135, 44	, T	71, 101		y 67		1	\$ 7		1.8	58.7	7 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-	37.7	11,0,4 5,001	4,841	8,895	808	13,176	2,777
	with	Monthly	1	Jan.	ofe, Porm	137,7.4		11,00	1	· ·	:	· · ·	1 (G	¥ 5 0.		11, 4,	· ·	1, 343 (7, 514 (7, 514 (7, 814		3,6	5,605	2,445	8,518	718	12,736	2,617
			months	7 to 5 to 5 to 5 to 5 to 5 to 5 to 5 to	CRABLE AND	131,3	1.53	, y	71.184	7		10.34	AME SUPPLEMENTAL SPRIES	= 11		411	1.8.8.7	2 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	MSIRIES	3,438	5,944	5,849	9,570	785	14,459	2,948
			Last	War.	DIRABLE AND NONDERABLE OF		1	111.88	Ť.	17.7	141.4	×	AND STEPPES	11,50	₹ .	11,144,9	21,031	2 7 7 7	PS AND IND	282.5	15,305	5,116.3	9,693	863	15,286	2,990
(12)			1	3pr.	No, DIRABI	1	13.,815	11,11	* * * * * * * * * * * * * * * * * * * *	46	r	1.1.1.	MHCoulth			1.0	, , ,	1 7 7 8	DUSTRY VROI	4. 4.00	1.,.34	5,413	1,341	810	13,765	2,738
(Williams of dollars)		Quarterly	-	1974	ALL MAN BACTURING,	A STATE OF S							31165						S							
		3	·	Y Y	-	-)(-)	5.7° r. +	.4.1,170	233,33	1 **, 184	. 3.	11, 7,		13, 137	18, 730	57, 5	1 1,58	15,21, 75,34, 8,6,4		1,97	38,19+	17,15.	.18,790	3,602	3,343	8,494
	adiusted			Jan.		15. 193	1. 37 . 34.7	×	77. +44	£ 5, 25	12,14.	L. 459	1	11,534	1,48%	13,413	**,78.	1, 14, 15, 45,11 1, 45,11 1, 47, 45,11		4, 537 364	13,14×	850,4	9,5,6	883	13,923	2,775
	Seasonally adjusted	ı A	-	Feb.		13 .899	117.14	*****	24,134	1.526	7 5,7 50	5. 70		1,12	1,947	13, 398	T. Carlot	21,399		371	1, ,849	5,820	4,772	8.28	14,313 1,099 1,120	2,877
		Monthly		Mar. 1980r	1	150.081	137,119	74,163	75.4.3	63,432	74,116	E, E	1	11,154	E . 90°, E	1.,007	188, 581	., 891 , 741 , 352 , 389		3,898	12,194	5,277	9,402	168	14,046	2,847
			-	Apr.		144.131	139.873	71., 335	72,257	61,412	71,8:4	15,123		10,654	9,808	11,674	65, 386	1,726 1,821 30,584		366	11,430	4,976	9,140	820	13,369	2,591
			Industry			All manufacturing industries:	Total, excluding trans-	Total for industries with un-	inrable goods industries, total.	burable goods with unfilled orders	Nondurable goods industries,	Nondurable goods with untilled orders		Market categories: Home goods and upparel Consumer stiples.	Equipment and detence products, except automotive	Construction materials, sup- plies, and intermediate products	Other materials and supplies and intermediate products	Supplementary series; ? Insernat durable grant Inde- I ries. (spital goals Industries. Nameferse. Peterse.		burable goods industries: Stone, clay, and class products Glass containers	Primary metals, total	Nonterrous and other primary metals	Pabricated metal prod., total.	drums	Machinery, except electrical, total. Engines and turbines.	construction, mining, and material handling equipment Metalworking machinery
			SIC																	32.2	33	333-4	341		351	354

See footnotes at end of table.

TABLE 1. --VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--CONTINUED

(Millions of dollars)

Electrical machinery, total 9,88 Electrical machinery, total 9,88 indicated Transmission and distribution equipment and 1,66 flousehold appliances 1,00 flousehold appliances 1,00 communication equipment 2,95 communication equipment 2,95																
19 I																
19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Monthly	lly			Quarterly		Last 4	months	Monthly	Last	4 months (a year	a year ago)		Annual	
		Mar. 1980 ^r	Feb. 1980 ^F	Jan. 1980 ^r	1 1980	111 VI 1979 1979	Apr. 1980P	Mar. 1980 ^r	Feb. 1980r	Jan. 1980 ^r	Apr. 1979	Mar. 1979	Feb. 1979	Jan.	1980	1979
						INDUSTRY	GROUPS,	AND INDUSTRI	INDUSTRIES Continued	ned						
	9,868	10,352	10,471	10,035	30,858	Samuel .	006'6	10,778	10,617	9,204	8,873	9,562	9,101	8,128	667,04	35,664
	1,680 1,049 620 2,999 1,809	1,909 1,131 683 2,938 1,861	1,761 1,182 708 3,147 1,798	1,688 1,281 631 2,817 1,680	5,358 3,594 2,022 8,902 5,339		1,708 1,044 546 3,113 1,853	2,004 1,199 648 3,175 1,911	1,883 1,164 711 3,145 1,826	1,609 1,077 520 2,598 1,608	1,652 1,026 627 7,539 1,463	1,760 1,072 669 2,859 1,463	1,727 1,003 701 2,536 1,457	1,559 859 583 2,281 1,243	7,204 4,484 2,484 12,031 7,198	5,698 3,960 2,580 10,215 5,625
: :	14,238	14,962	15,860	15,241	46,063		14,919	16,368	16,274	13,853	17,090	19,273	17,729	16,522	51,414	70, f14
Aircraft, missiles, and parts	4,255	4,053	3,871	3,790	11,714		4,285	4,286	3,999	3,219	3,574	4,027	3,285	3,210	15,789	14, 196
tank vehicles	177	928	844	883	2,655		792	885	798	769	784	989	679	602	3,244	2,671
products, total	3,282 1,903 1,206	3,643 2,097 1,371	3,613 2,009 1,410	3,367 1,941 1,740	10,623		3,238 1,914 1,155	3,719 2,183 1,352	3,485	3,030 1,832 1,034	2,837 1,670	3,058 1,827 1,029	1,769	2,509 1,526 824	13,472	11,173
All other durable goods industries6,	6,970	7,423	8,067	8,171	23,661		7,097	7,699	7,709	6,832	7,741	7,833	7,027	6,058	.9,337	28,659
Nondurable goods industries: Foot and Kindred products, Total Real products Real products 7814 and 0.018 All other foods	19, 384 4, 459 2, 426 1, 444 8, 287	20,364 4,791 2,402 1,727 8,543	20,175 4,985 2,551 1,648 8,212	20,117 4,877 2,559 1,622 8,242	60,65f 14,653 7,512 4,997 24,997		19,305 4,495 3,469 1,480 8,096	20,942 4,777 2,448 1,754 9,048	20,391 4,905 2,748 1,745 8,664	18,903 4,770 2,114 1,599 7,698	18,754 5,189 2,285 1,535 7,239	19,875 5,424 2,323 1,648 7,906	19,037 5,277 2,005 1,635 7,583	17,507 4,990 1,794 1,542 6,778	74,541 18,947 9,279 6,578 81,506	75,173 20,880 8,407 6,360 29,506
Tobacco products	1,203	1,041	1,144	1,046	3,231		1,175	1,019	1,061	1,002	3,838	985	3,637	3,519	4,257	618,4
Paper and allied products, foral	5,837 2,747 1,340 1,750	5,863 2,746 1,347 1,770	5,857 2,803 1,374 1,680	6,067 2,733 1,384 1,950	17,787 8,282 4,105 5,400		5,923 2,817 1,356 1,750	6,032 2,838 1,394 1,800	5,969 2,813 1,381	5,705 2,583 1,302 1,820	5,464 2,506 1,221 1,737	5,639 2,610 1,751 1,778	5, 379 2, 345 1,182 1,852	4,737 2,123 1,110 1,5 kf	23,629	21,219
_	3,191	13,709	13,508	13,927	41,144		14,178	14,766	13,837	12,918	12,476	13,121	11,704	17,79.	669"55	13, 145
Industrial chemicals, except pigments	3,649	4,936	4,804	4,913	14,653		5,036	5,370	5,010	4,658	4,356	4,576	4,025	3,777	14,395	16,734
	4,330	14,849	14,349	13,965	43,163		14,732	14,578	14,568	13,827	9,800	In, uts	9,704	. 52. 4	2,275	38,771
	3,5.%	3,645	3,854	4,042	11,541		3,700	3,879	3,930	3,677	3,812	4,145	2, % , 5	3,337	15,186	15,123
All other nondurable goods 10,	10,226	10,513	10,520	10,781	31,814		10,020	10,495	10,602	9,596	8,902	9,257	8,934	8,755	40,713	35,348

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-anoth variations; unfilled orders and inventories are as of the end of the puriod and are not adjusted for trading-day or calendar-month variations.

The supplementary veries are regroupings of the separate industry categories as follows:

Household durable goods industries - Mousehold furniture; Altchen articles and pottery; cullery, handtools, and hardware; household appliances; radio and TV; ophthalmic Goods, satches, and clocks. and miscellaneous personal goods.

Capital goods industries—The capital goods industries series is comparable to the previous Producers' Capital goods and the Defense Products' Cold sorties) categories.

Manderess products—Auchiersy, except electrical accordance and mander and members below, all attriated and investing and entranged or artificial additional entrangement, alternate and attriated and antificial and activities of shaping and or artificial additions and entrangement and artificial and attriated and artificial artificial artificial and artificial ar

Table 2, -- VALLE OF MANCEACTIBLES AND ORDER FOR INDUSTRA OR IS, WARRY CATEORIES IN 1975 WATER SPEECE

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			Wonthly	thly		5	quarterly				Wasselv	17				hear to tate	ate
2114	Industry	100	2	43.5	lan.	-	-		, , , , ,	7		1381	+ minths a year ago	a year ar		_	
		1980P	1980r	19801	1980"	1980	1979 1979	Apr.	Mar. 1-8.7	Fet.,	Jam. 1	4pr.	Mar. 1974	Feb. 1979	Jan. 1979	1980	y r v
1	1				•		ALL MANUEN	W FITRING . : HA.	613 W. VON	ale tabalta Ger	1. 1. 1. 4M					,	
	All manufacturing industries: Tetal	143,771		154, 51 3	170,588	442,260	-	145,444	154,143	11+, 442), 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	142, 714	153,472	145,491	132,056	ь08,99ь	1,234
	Total, excluding trans-	126,380	14.720	138,598	139,140	413,4.		124,947	142,004	la , wh	1.4.4*2	124,12,	132,411	123,923	113,213	542,343	444.17
		75,995	81,147	82,486	83,717	247,304		11.	\$. \$.	, t , t , t , t , t , t , t , t , t , t	, , 4 K	3886	16,456	81,208	73,141	324,392	317,184
	Burable goods industries,	12,458	77,560	81,021	×1,46.7	240.03.		4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	B2, n4.2	×3, 36	18,180	78, 14,	86,471	41,842	73,762	315,403]	320,916
	orders,,,,,,	61,413	65,553	67,388	68,127	201,00		*****	7 4	7	3.5	13,130	70,842	h7,178	×0,730	265,287	252,490
	Nondirable g. ds industries.	71,313	74,519	73,582	74,121	:22,21.		-2,407	ž.	r - 2	, ,, ,111	x 2.	10°, 101	13,649	58,244	293,343	253, 342
	orders	14,582	15,594	15, 72	15,640	44. 300		16,2 4	15,877	15,443	14, 824	14,10	14, 28	14,030	12,411	61,105	54, 194
	orders	56,731	58,925	58,510	58,481	175,916		425°,558	F. 7. 2. 2.	59,214	54, ×59	, 24-3	. 2, 44.3	44,614	45,883	232,288	198, 448
		4			1		ACCOUNT.	CATHGORIES		AND SUPPLEMENTARY SPRINS	1115						
	Market categories: Home goods and apparel	10,404	11,145	11,687	11,540 25,886	34,37.		25,378	111, n30	11,76	24,233	23,774	10,738	11,100	8,721	43,532	39,484
	fquipment and defense prod- uers, except automotive		73,597	22,676	23,837	33,20.		23,672	24,458	22,2rs 12,101	22,236	20,672	24,42+	23,171	18,377	42,+32	86,546
	construction materials, sup- plies, and intermediate prods.		12,237	13,25	12,432	38,41		12,918	12,251	12, 174	1 ,834	12,816	12,937	11,050	9,743	617,47	46,546
	other materials and supplies and intermediate products	64,099	188,717	P\$4, P64	76, 191	208,75		876,848	72,613	72,505	48, 339	62,019	692,84	62,866	59,172	274,405	249,806
	Supplementary series: Prosechold durable goods indus- frics.	4,564	4,923	5,344	5,247	15,41~		4,585	5,236	5,270	4,434	4,588	4,961	4,742	3,914	19,525	18,305
	Capital goods industries Nonderlense	27,044 22,184 4,880	27,184 22,590 4,594	25,161 21,480 3,681	27,211	79,5 67,92 11,62		27,019 22,427 4,592	28,081 23,574 4,507	25,753 22,413 3,340	25,823 22,277 3,546	23,881 20,920 2,961	27,599 24,568 3,031	26,937 23,332 3,605	22,527 19,679 2,848	106,676 90,691 15,985	100,944 88,499 12,445
								INNESTRY GROI	PS AND	INDUSTRIES	-		K			•	
32	Durable goods industry.	3,821	3,976	4,249	4,574	12,794		3,974	4,134	3,904	3,914	4,233	3,980	3,387	3, 204	15,926	14,804
33	Primary metals, total Blast furnaces, steel mi	9,888	11,141	13,086	13,533	37,766		10,520	12,869	14,193	13,669	12,456	14,318	13,846	13,497	51,251	54,117
333-5,9		4,851	4,830	5,956	6,432	17,218		5,166	5,495	6,154	6,227	606,4	5,461	5,061	4,786	23,042	20,217
34	Fabricated metal products	8,794	9,738	10,223	9,092	29,053		9,062	6,977	986'6	8,330	9,195	10,604	8,968	8,504	37,355	37,271
35	Machinery, except electrical, total	11,728	14,000	14,247	15,249	43,494		12,339	15,308	14,945	14,153	13,469	15,864	13,924	12,126	56,745	55,383
354 354 356	Construction, mining, and material handling equipment Metalworking machinery General industrial machinery	2,088 699 614	2,841 1,087 1,319	3,018 1,077 1,076	3,094 1,155 1,319	8,953 3,319 3,714		2,350 763 685	3,036 1,231 1,351	3,108 1,126 1,195	2,977 982 1,195	2,902	2,648 1,049 1,287	2,771	2,574	11,471 4,102 4,426	10,895
See	See footnotes at end of table.																

TABLE 2. .-VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--CONTINUED

(Millions of dollars)

				Seasn,	Seasonally adjusted	ed				Witho	Without seasonal adjustment ¹	l adjustme.	nt l			0000	4 4 6
			Mon	Monthly		O.	Quarterly				Monthly	13				leaf (0	date
SIC	Industry	1 4	Mose	400	Ton				Last 4 months	nonths		Last	Last 4 months a year ago	а уеаг адо		_	1
		1980P	1980r	1980r	1980r	1980	1979 1979	Apr. 1980P	Mar. 1980r	Feb. 1980r	Jan. 1980 ^r	Apr. 1979	Mar. 1979	Feb. 1979	Jan. 1979	1980	1979
							SUGNI	INDUSTRY GROUPS AND INDUSTRIES Continued	AND INDUSTR	IESContin	nued			-		-	1
36	Electrical machinery, total	10,809	11,109	11,440	10,626	33,175	(and open and	10,919	11,461	11,680	10,062	9,412	9,921	10,264	8,834	44,122	38,431
	distribution equipment and industrial apparatus		1,955	1,897	1,633	5,485		2,167	2,047	2,048	1,647	1,891	1,765	1,769	1,747	606,7	7,172
363	Household appliances	1,030	1,126	1,175	1,239	2,075		1,031	1,185	1,176	2,090	1,067	1,059	1,050	921	4,482	4,097
366	Communication equipment		3,526	3,569 2,083	3,279	10,374		3,646	3,632	3,527	3,115	2,456	2,917	3,070	2,499	13,920	10,942
33	Transportation equipment,	17,391	16,345	16,005	16,448	48,798		17,399	17,141	16,132	15,961	18,610	21,061	21,568	18,843	56,633	80,082
372,6		967 8	5,558	4,387	5,643	15,588		7,737	5,315	4,130	5,547	4,846	5,544	6,915	4,737	22,729	22,042
37.31	Shipbuilding and military tank vehicles	986	1,183	748	999	2,595		1,087	1,209	732	744	956	893	585	909	3,772	3,039
æ	Instruments and related products	3,181	3,695	3,760	3,641	11,096.		3,181	3,828	3,630	3,251	2,938	3,253	2,777	2,621	13,890	11,589
22.3	All other durable goods industries	6,846	7,542	8,011	8,304	23,857		7,105	7,924	7,760	٠,892	8,028	7,970	7,108	6,133	29,681	29,239
Down	Pose Limitation Thursday				7				1	1	1	-1	*			7	

Shapments and new orders are the rotals for the period and are adjusted for trading-day and calendar-month variations untilled orders and inventories are as of the end of the period and are not adjusted for tradings of references as follows:

"This supplementary serves are references, as references as follows:

Household durable goods industries - Household furniture. Altchen articles and poitery, cutlery, handrouls, and hardware, household appliances radii and TC, spinalmin goods, asteles, and the riskellaness

and the Countries continued to the capital goods industries is comparable to the previous Producers' Capital Goods and the Detection's capital Goods and the Detection's According for machiners and entering the producers' except electrical and alternative and experience and alternative and experience TABLE S. -- VALUE OF MANUFACTURERS OF URLERS FOR INDUSTRA GROUPS, MARKET CATEGORIES AND SUPPLIENTLY SERIES

6

Willins tdulars.

					Seas mally	lly 3d .s. ed	D	1					Without	ut seas ma	seas mal admistrent	ont1		
			Mere	Monthly			,	Jahreniy						Vonthly	hlv			
SIC	Industry			,								1354	1.135		Last	+ = orths	a ven ago	1
		Apr. 1980P	Mar. 1980'r	1980	1980	1979	19.6	1979	1979	8261	Vpr.p	Vur.	1986	lan, 1980	1979 1979	Mar. 1979	Feb. 1979	Jan. 1979
					,		ALL	SANIA TH	THING CHARLE	3	N WITBABLE	THE PIN	1			,		
	All manufacturing andustraces	286,570	286,907	276,28,	48,211	. 78, Kuts	.71, 446	± 36 € 4.	54.45	. 38, nS.	, 48,500	188,	. 46,671	33,445	185,078	968,63.	-53,95+	26.1,042
		177,772	181,265	180,467	179,095	176,039	173,441	.75,755	17 1, 1.9	15 ', '4.	X	14,548		11,912 1	17.,231	170,570	100,113	466,114,
	inrable gods undustries,	275,088	.775, 884	. 73,263	.71, 199	.67,071	380,576	158,457	91 K 18 7	.8,181	10,047	Jin, nin		71,*,17	254,172	244, 393	. + 5, 333	. 34, 457
	Nondurable goods industries,	11,482	12,623	11,661	11,812	11,775	11, 570	679* 1	£.	14,471	11,353	17,094	11,740	II, bun	10,900	10,563	10,612	31,075
								WARRIE A	recohile W	We start the	ENTAN IRI							1
	Market categorics Home goods and appare l	56+4+	4,717	4,644	T 25 9 4	5.0	4, 4h 5	5,001	177,2	1,108	E E	, 564 1	657 * 7	\$6745	4,855	. 588	4,432	06,11
	lquipment and defense pr d- ucts, everpt autor two.	166,403	159,073	187,184	187,400	154,641	136,415	143, 105	1, 1	134,164	146 , 1444	7, 7, 7, 1	1-8,597	158,416 1	145,636	144,541	7	157,083
	construction materials, sup-	20,615	30,771	las,n,	10, 188	.00,77.	. 1,037	.1,11	55% 400	1.145	286	20, 80,	, it , bit 3	168 0.	. 1,+00	30,898	47.5.0.	20, 130
	other materials and supplies and intermediate products	101,057	10., 146	log, offe	100,785	48, 345	45, 16	9911,456	589,83	19,1590	101,577	103,473	103,012	100, 363	93,187	84,869	87,707	83,529
	Supplementary series: 1 10.581 1d. durable gods indus- tries. Apital poods industries Nontrense. Perferense	1,515 188,747 137,742 51,005	3,680 185,519 136,118 49,401	3,648 184,077 134,881 48,196	3,577 192,569 134,860	179,055	3,914 177,199 176,199 46,000	167,963 122,825 45,138	150, 415 116, 418 115,7 to	5,547 147,787 104,7.5	188, 864 137, 90.	1,535 126,009 1136,311	3,431 184,180 135,561 48,619	183,552 10 185,004 11 185,004 11	3,976 110.,127 1117,288 44,839	5,734 100,162 115,312	5,615 1156, 45 111,405	151,498 107,043
					1		1 1	Hold	-Th's - Rest	BN INE	· STRUE	1 !	1	1	1	1		
	furable goods industry																	
2	Stene, clay and glass	2,927	3,016	. 988	25,952	70h 4 .	3,096	3,009	2,832	2,943	3,063	3,116	2,981	3,935	5,175	2,865	2,874	.,872
33	Primary retals total	27,987	29,528	30,586	30,369	29,607	30,024 18,680	31,902	31,463	17,129	29,244	30,963	51,449 18,537	17,646	33,946	32,515	31,370	_9,126 19,000
9-1-1	Monterrous and other primary metal products	4,273	9, 397	4,844	9,708	56546	8,833	8,445	8,115	7,443	9,681	9,933	10,100	562*6	8,596	8,529	8,210	21612
7.	Fabricated metal products	28,390	28,737	38,400	27,948	28,257	27,818	27,970	27,652	26,094	28,374	28, 554	28,370	27,954	27,818	27,520	26,853	36,605
351	Machinery, except electrical, Estal, Estal, Estal, end turbines, estal,	58,354	59,994	16,767	60,105 16,826	58,729	57,323	57,296	56,565	53,037	58,641	16,789	60,045	59,759	56,590	56,300	54,578	53,732
354	mont	8,375 7,627 6,603	8,877 7,798 7,183	8,884	8,742 7,433 7,196	8,449	7,977	7,993 6,131 7,249	8,078 5,699 7,054	7,957 5,100 6,840	3,534	8,922 7,728 7,183	8,875 7,528 7,075	8,716 7,329 7,131	8,187 5,852 7,096	8,062 5,642 7,019	8,220 5,455 6,896	8,117 5,280 6,801
See	See footnotes at end of table.																	

TABLE 1 .- VALLE OF MAY FACTIBLES ' WPILLED ORDERS FOR INDISTRY GROUPS, MARKET ATROCRIES AND SUPPLEMENTARY SPRIES - CONTINUED

						10.70	California of Goldans	Outrals										
					Seasona	Seasonally adjusted	7						Alth	Airhout seas hal admistrent	el admistr	ent.		
			Wonthly	17			u'y	Quarterly						Wentl.lx	13.			
\$ 10	Industry group						,		,			Last 4 n	2 D 7 E 2 .	j.		4 wonths	.a vest ag.	1
		Apr. 1980P	Mar. 1980 ^r	1980	Jan. 1980	1979	1979	111	6261	1978	Apr., 1980 ^p	Mar. 1980r	Feb. 1980	Jan. 1980	Apr. 1979	Mar. 1979	feb. 1979	Jan. 1979
			1					INDUSTRY GROUPS	SROUPS AND		INDUSTRIES Continued	P	7	·	4	7	1	
36	Electrical machinery, total	38,886	37,944	37,190	36,219	35,552	34,715	33,906	95,569	30,427	38,982	37,363	37,179	36,119	3.,760	32,420	195'65	30,898
Ē		8,008	7,657	7,012	7,476	7,533	7,376	7,275	6,900	6,777	3,127	7,069	7,626	1,462	7,160	6,9.1	5, 415	7,873
365	Ractio and Physics		395	77+	35.2	328	809	535	695	525	167	360	453	3,74	5.37	700	145	697
365	Fleetrente components		11,014	10,004	10,527	10,235	15,765	9,186	5,532	7,587	11,100	17,560	10,72	10,359	9,855	15,03h 8,455	8,143	7,815
· .	# f	108,798	105,642	104,257	104,116	10.2,767	98,5116	95,333	89,138	80,910	118,562	106,18;	105,41	115,553	40,847	04, 3, 6	57,536	~ 5, r 3h
0	6	86,044	81,804	86.,108	79,784	17,893	77,914	69,763	65,139	56,0,98	15,75,	8,,299	51,271	51,141	14,763	63,488	11,971	58,539
17.45	fank vehir les	11,45(11,237	10,982	11,079	11,279	11,098	10,906	10,947	11,0005	11,593	11,299	10,975	11,540	11,162	166,01	10,733	214,798
89	Instructure and related	6,357	65749	6,400	6*328	5,992	5,823	5,640	5,423	5,091	n, 384	0,441	6,333	ts, 188	5,48h	5, 334	5,190	2,18,
2, 9	All other derable gods	3,389	3,514	3, 395	100 mm	3,283	3,271	3,4(1	5,197	98.9	3,397	3,389	3,164	5,114	3, 350	3,063	5264.	4,846

untilled erders and inventories are of the east of the pear of and are not advected for tradumelay or calendar-worth cariations.
The supplementary series are regroupings of the separate industry categorise as follows:

personal goods. (Applied to capital goods industries series is comparable to the previous Producers' rapital Cooks and the Delense Products and series rather rises where produces a waterway, event factorized to statement and evaluation of evaluation presented application of support of a statement of evaluation and evaluation presented application.

terms products - Based on separate reports in delense work tiled by lange deterse contractors in the following industries: Opinionic, data are comparable to those published annually in the MS-1%, Suppomits of Defense in industries. For the specialized industries in the specialized industries.

Beginning in PD, the fiscal year for the Federal coverment or bably affected the warring of contracts and other finnings and attracts and other finnings. In the transfer of the second distraction of the current of the second distraction of the current of the second distraction

(Millions of dillars)

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	.1		Wom 13.	3.1.5	-		`	ant terit		1			l	West	, la		i	I
210	Industry											last.	2,110		1364	, , , , ,	a 13: 32	
		Apr.	las v	1,46.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* * * * * * * * * * * * * * * * * * * *				1) 33		-	i tur.	Apr.	T	3.4	0.00
					ed .	н 1	TIN I	WHEN THE	N , portors	IN V SWA	Fig. 1	Wr. 1 8	3 1		a	,	1	
	All manufacturing imbastines Todal	£ .:							x	:	- ;	 1	, x		- 17.	2 17 JUNE.		43.5
	Total, excluding tran -		100,000	11	1.4	÷.	Fr. 41	* * * * * * * * * * * * * * * * * * * *	1 7		7		1.	-			7.1	7.
	Total for indu tries with untilled orders	-		P	1	1	;	T. es 1	:	00000	* * * * * * * * * * * * * * * * * * * *			1	11	1.1.1	7.	14, 311
	harable goods industries, total,	153,147	-4-	.16.		111.11	11.	71:	;					1	2	4 2	1.	31
	Durante poods with unfilled	1.4-, 917	8 (111), the 4	.1.	10.1	1			111,111		-	811	111111	1.		1 5	, ÷	
	Nondurable good industries,	:	z, iz	1.		7	7	1	(4)	; ;	MINT	ž	* X	,*	· · ·	; ;		ž,
	Nondergale goods with antilled	1, 4, 7,	7 2 4.	18.13e	7.	7	-1-		.*	×	1 2 2	7 -7	7	ž,	111111111111111111111111111111111111111	724	15,870	15 54
		,						MARKE 6	The delter of	M LIMIT	FATAL SPRI	22 86		•			•	
	Market caregorites flore goods and apparel.	18,110	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* ± ±	-		= :	* # ·	- <u>- </u>	: :	- *	- 11	_	÷ ÷		5 1 1 1	- 11 11	* 5. 5.
	fquippent and lefense pro- ducts, except arteneday	10,415	1181	5.5. 15.115	5 % 2 3	1.2	1		<i>3</i>	. .	; ;	1 2. 35.	1	: 2	11,	11 - 11	× + + × × × × × × × × × × × × × × × × ×	11.04
	Construction materials, sup- plies, and interrediate products	20,162	200, Inn.	19.53		14.40	ž,	τ, τ,	1	7.	17.41	-		14 561		Д 	18 123	1, 88
	other materials and supplies and intermediate products	17,011	14,867	11,700	11.3.	HT1 68	ř ž	ž	10.16.	11.11	97.108	77	970 76	41.575	- :-	74 9 14	168 4,	4 7 00
	Sappieschary series: Household durable goods induserries: (Tapital goods industries.	73,450	115.,	1,107	* .*	F. 1000	7 4. . 4.	X : 34 X : 4 X : 4 X : 4	# . # . # . # . # . # . # . # . # . # .	* * * * * * * * * * * * * * * * * * *	7 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °		20 X	4 4 6 X X X X X X X X X X X X X X X X X	€ = € 1 € 1 ₹	X X E E E E E E E E E E E E E E E E E E	£ ;	56.35
	Youds fourse,	10,370	64, 102 10,075	hl,+88	5 %	34, 19h	1, 2, 3 1, 2, 1, 2	3 7	- 3	£	23 24	6, 813	7 5 H 5 T 7	4.5.4.5.4	4,00%	51,117	157	49 J16
		4	1			4	4	- OKI	USTRY GROUP	PS AND IND	STRIES	1	1	4	1	,		
32.32.32.3	Durable goods industries Stone, clay, and glass products	6,018	5,487	5,750	5,868	25.00	5,44.5	2	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	*, 8 's	6.217	1,134	9, 3, 28	5,723	5 411 523	5.266	5126	766.4
331	Primary metals, total, Blast furnaces, steel	11,494	20, 367	20, 382	20, 393	19,905	19,005	18.578	17,761	17,962	20, 573	20,303	20,427	20,390	18,487	17.766	18,018	18.161
233-0,9		7,957	7,848	7.658	7,04.	609, 5	7,195	806,0	6,618	6,911	8,060	7,435	7 757	7 650	6.910	6.750	6,772	6,783
34	Fabricated metal prod., total,	19,775	19,659	19,490	19,443	19,179	18.682	18,584	17 796	16.834	20.073	80,0,0,	19,568	19,271	18,254	18,056	17.571	17,048
	drums	1,576	1.502	1,531	1.555	1.578	1,362	1,38.0	1.293	1,211	1.782	1.669	1,548	1,494	1.499	1,440	1.326	1 294
351	Machinery, except electrical, total. Engines and turbines.	38,647	37,609 2,703 3,114	37,502 2,696 3,074	37,272	36,502 2,701 3,102	35,525	34,120 2,522 2,850	32,509	30,925	39,145	3, 298 3, 298	37,959	37,428	33,351	33,012	32,295 2,463 2,809	31,582 2,445 2,541
354	construction, mining, and material handling equipment Metalworking machinery General industrial machinery	8,491 2,531 3,726	8,308	8.311 2.391 3,701	8,405 2,369 3,627	8,134 2,312 3,661	8,107 2,231 3,527	7,963	7,435 2,082 3,298	7,037	8,610	8,499	8,503	2,378	2,137	7,628 2.091 3.341	2,067	3,269
See	See footnotes at end of table.																	

Table 4, -- VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES -- CONTINUED

(Millions of dollars)

							THE PERSON NAMED IN COLUMN	0 01 001101	/0	ŀ								
					Seasona	Seasonally adjusted	p						With	Without seasonal adjustment	ul adjustme	nt1		
			Mont	Monthly			ō	Quarterly						Monthly	ılv			
SIC	Industry								-	11		Last 4 mc	months		Last	Last 4 months (a year	(a year ago)	
		Apr. 1980P	Mar. 1980	1980r	Jan. 1980 ^r	1979	1979	1979	1979	1978	Apr.,	Mar. 1980r	Peb. 1980 ^F	Jan. 1980r	Apr. 1979	Mar. 1979	Feb. 1979	Jan. 1979
								INDUSTRY	GROUPS AND	INDUSTRIES	s							
36	Electrical machinery, total	22,134	21,620	21,413	21,036	20,585	19,486	18,714	18,066	17,066	22,418	21,729	21,291	20,726	18,458	18,129	17,653	17,404
363 365 366 367	and distribution equipment and industrial apparatus Household appliances Radio and TV Communication equipment Electronic components	3,979 2,242 1,111 7,908 3,278	3,868 2,161 1,053 7,741 3,240	3,918 2,149 1,010 7,507 3,225	3,819 2,107 1,023 7,397 3,138	3,753 2,106 1,042 7,122 3,086	3,632 1,967 963 6,595	3,524 1,956 984 6,129 2,850	3,365 2,025 1,013 5,833	3,248 1,953 1,031 5,431 2,508	4,032 2,339 1,103 7,931 3,314	3,890 2,183 1,019 7,799 3,263	3,912 2,134 976 7,507 3,216	3.813 2.065 974 7.301 3,110	3,492 2,065 991 5,958 2,721	3.387 2.041 979 5.875 2.728	3,306 1,979 997 5,712 2,668	3.284 1.934 1.035 5.636 2.611
37	Transportation equipment, total	32,181 8,018	31,447	30,630	30,371	29,881	28,534	8,857	25,717	24.131	32,281	31,709	30,910	30,388	26,471 9,016	25,947	26.134	25,107
372,6	Aircraft, missiles, and	19,403	19,049	18,299	17,967	17,400	15,481	14,696	13, 176	12,593	19,563	19,192	18,423	17,783	13,707	13.267	13 238	12.737
3731	tank vehicles	2,293	2,130	2.125	2,148	2,180	2,064	1,675	1,717	1,775	2,286	2.146	2.044	2,060	1,612	1.738	1.716	1 657
38 381-4 386 24	Instruments and related products, total	8,303 5,696 2,149	8,237 5,597 2,155	8,128 5,472 2,17\$	8,043 5,379 2,184	7,713 5,259 1,971	7,456 5,021 1,926	7,336	7,036	6,468	8,397 5,742 2,192	8.264 5.636 2.146	8.130 5.494 2.158	8.021 5.417 2.136	7,154	7.023 4.572 1.950	6,790 4,454 1,850	6.639
25	All other durable goods	12,216	12.181	12,019	12,119	11,934	11,734	11,606	11,249	11,014	12,373	12.386	12.247	12.150	11,478	11,461	11.406	11.128
20 201 208 207 203-6,9	Nondurable goods industries Food and kindred products, Octal, products Beveruges, Fats and oils.	20,170 1,803 3,825 1,634 11,128	20,431 1,851 3,830 1,627 11,333	20,505 1,894 3,785 1,924 11,152	20,250 1,966 3,729 1,951 10,896	20,326 1,990 3,869 1,888 10,875	19,856 1,753 3,679 1,704 11,070	19.106 1,716 3,614 1.605 10,590	18,119 1,650 3,478 1,598 9,896	17,262 1,673 3,453 1,437 9,308	19,793 1,867 3,886 1,711 10,560	20,181 1,862 3,919 1,821 10,868	20,675 1,909 3,887 2,070 11,152	21,011 1,959 3,796 2,134 11,462	17,939 1,710 3,584 1,580 9,525	17 924 1,667 3,564 1,722 9,539	18,036 1,655 3,505 1,760 9,713	18.010 1,648 3,542 1,632 9,788
2.1	Tobacco products	3,475	3,506	3,506	3,541	3,523	3,746	3,716	3,586	3.619	3,544	3,653	3,762	3,771	3,654	3,754	3,796	3.870
22	Textile mill products	161'9	960*9	5,962	5,919	5,848	5,686	5,645	5,718	5,666	6,299	6,204	6,063	5,936	5.818	5,813	5.814	5,715
26 261-3 265 264	Paper and allied products, total Pulp, paper, etc Paperbaard containers All other paper containers.	7,336 2,510 1,948 2,878	7,296 2,435 1,980 2,881	7,156	6,906 2,385 1,922 2,599	6,779 2,321 1,899 2,559	6,422 2,137 1,843 2,442	6,344 2,090 1,785 2,469	6,045 2,053 1,752 2,240	5,875 2,006 1,710 2,159	7,432 2,544 1,965 2,923	7,232 2,443 1,960 2,829	7,073 2,408 1,933 2,732	6.859 2.352 1.899 2.608	6,271 2,086 1,787 2,398	6,005 2,055 1,7-1 2,209	5.875	5,880
07	Chemicals and allied products,	19,210	18,677	18,429	17,875	16,978	16,582	15,901	15,548	15,429	19,178	18,855	18,776	18.227	15,918	15,746	15 87	15 409
281,6	Industrial chemicals, ex- cept pigments brugs, soap, and tolletries.	6,298	6,055	5,982	5,661	5,277	5.021	4,677	4,482	4,858	6,191	5,982	5.422	5,780	4 564 4 184	, 1000	1 1 2 8 2 1	4 8554 4
59	Petroleum and coal products	8,471	8,062	7,297	6,933	099'9	6,35+	5.347	5,063	5,423	8,113	7,647	7,133	7,056	STr. J	4 896	\$40.5	5 403
20	Rubber and plastics products,	5,077	756.7	078'7	4,880	4,750	4,962	4,870	4,707	709°	5,165	5.578	4,964	0.470	4.456	1 333	4 755	4,731
27 31	All other nondurable goods	12,512	12,373	12,087	11,947	11,615	11,882	11,710	11.525	10,939	12.651	12,266	11.842	11,520	11.6.6	11.411	11 123	10,865
D.	Se .											1	2					

Prediminary. "Revised.

Simple set to totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and puttery, cutlery, handtools, and hardware; household durable goods industries - Household furniture; kitchen articles and puttery, and "lacellanens

personal goods.
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Table 6 .--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

	Mor	th-to-mont	th	Aver	age monthly	rates of ch	ange	Average,	1975-1979
					3 months		12 months		
Item and industry group	Mar Apr. 1980	Feb Mar. 1980	Jan Feb. 1980	Jan Apr. 1980	Oct. 1979 Jan. 1980	July- Oct 1979	Apr1979 Apr1980	Average rise	Average decline
Shipments:									
All manufacturing industries	-4.0	-1.8	+0.5	-1.8	+1.5	+0.8	+0.6	+1.6	-1.2
Durable goods industries, total	-4.8	-4.1	+1.6	-2.4	+1.1	+0.8	+0.2	+1.9	-1.9
Nondurable goods industries, total	-3.1	+0.6	-0.6	-1.0	+1.9	+0.9	+1.1	+1.6	-0.7
Total inventories:									
All manufacturing industries	+1.7	+1.5	+1.2	+1.5	+1.3	+1.1	+1.3	+0.7	-0,3
New orders:									
All manufacturing industries	-5.5	-1.6	-0.6	-2.6	+2.0	+0.9	+0.3	+1.9	-1.2
Durable goods industries, total	-6.6	-4.3	-0.5	-3.8	+2.1	+0.9	-0.3	+2.8	-2.0
Nondurable goods industries, total	-4.3	+1.3	-0.7	-1.2	+1.9	+1.0	+1.0	+1.5	-0.7
Unfilled orders:									
Durable goods industries, total	+0.1	+0.6	+0.7	+0.5	+1.1	+0.6	+0.7	+1.2	-0.9

Table 7 .-- RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inve	ntoriessl	hipments r	atio	Unfill:	ed orders-	-shipments backlog)	ratio ¹
industry group	Apr 1980	Mar 1980	Feb 1980	Jan 1980	Apr 1980	Mar 1980	Feb 1980	Jan 1980
All manufacturing industries, total	1.68	1.59	1.54	1.53	3.75	3.62	3.53	3.53
Durable goods industries, total	2.22	2.07	1.96	1.98	4.49	4.30	4.17	4.20
Stone, clay, and glass products Primary metals. Fabricated metals. Machinery, except electrical Electrical machinery. Transportation equipment. Instruments and related products.	1.52 1.83 2.16 2.89 2.24 2.26 2.53	1.54 1.67 2.09 2.68 2.09 2.10 2.26	1.36 1.59 1.99 2.62 2.04 1.93 2.25	1.25 1.53 2.04 2.68 2.10 1.99 2.39	0.81 2.45 3.41 4.71 3.94 13.10	0.86 2.42 3.38 4.59 3.67 12.32 1.77	0.78 2.38 3.18 4.55 3.55 12.35	0.71 2.31 3.23 4.69 3.61 12.66 1.86
Nondurable goods industries, total	1.15	1.10	1.08	1.06	0.76	0.79	0.77	0.75
Food and kindred products. Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.c.	1.04 2.89 1.49 1.26 1.46 0.59	1.00 3.37 1.46 1.24 1.36 0.54 1.36	1.02 3.06 1.38 1.22 1.36 0.51 1.26	1.01 3.39 1.41 1.14 1.28 0.50 1.21	(X) (X) (NA) (X) (X) (X)	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X) (X)

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics Preliminary.

products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

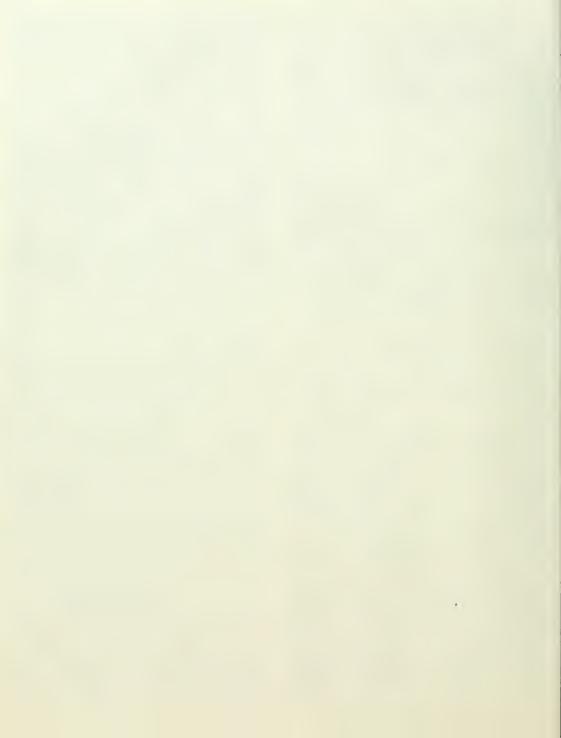
Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Shipments, Inventories, and Orders

MAY 1980

M3-1(80)-5

U.S. Department of Commerce BUREAU OF THE CENSUS

FOR WIRE TRANSMISSION 2:30 P.M. Tuesday, July 1, 1980

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in May declined \$3.8 billion or 2.6 percent to \$139.3 billion the Department of Commerce, Bureau of the Census reported today. This is the lowest order volume recorded since April 1979 and the fourth consecutive monthly decline. New orders in April were down 5.9 percent, in March 1.6 percent, and in February 0.6 percent.

New orders for durable goods dropped \$4.8 billion or 6.6 percent to \$67.4 billion. All industries except nonelectrical machinery, and instruments and related products reported decreases.

Orders for transportation equipment showed the largest order decline, down \$3.1 billion or 17.8 percent to \$14.4 billion. Three-fourths of that decline was accounted for by the aircraft industry where after a 54 percent increase in April, new orders dropped to \$6.2 billion, a 28 percent decline. Without the aircraft industry, transportation equipment orders were still down significantly with an 8.2 percent decline.

In the primary metals area, steel orders fell for the third consecutive month, decreasing \$0.8 billion or 18.6 percent. The value of incoming steel orders for May was \$3.4 billion, substantially lower than the value of shipments for the month of \$4.7 billion. New orders for fabricated metal products, which have also been declining since the beginning of March, fell \$0.8 billion or 9.5 percent to \$8.0 billion.

The increase in new orders for nonelectrical machinery was \$1.5 billion or 12.6 percent. This followed a sharp decline in April of 16.8 percent.

For the capital goods industries, new orders for nondefense capital goods were down \$2.0 billion or 9.1 percent to \$20.1 billion. Changes in new orders reported by industries comprising that category showed mixed patterns. The large decline in commercial aircraft was partially offset by the increase in nonelectrical machinery. Orders for defense capital goods, which are usually volatile on a month-to-month basis, increased for the fourth consecutive month. The May increase of 6.7 percent followed increases of 7.7 percent in April, 24.8 percent in March, and 9.8 percent in February.

New orders for nondurable goods increased \$1.0 billion or 1.4 percent to \$71.9 billion.

The value of manufacturers' shipments in May declined for the third consecutive month, down \$1.8 billion or 1.3 percent to \$141.8 billion. A more substantial decline for the durable goods industries of \$2.7 billion or 3.8 percent was partially offset by the increase in nondurable goods shipments of \$0.9 billion or 1.3 percent.

The shipments declines in the durable goods industries were widespread. The motor vehicle industry reported a \$1.0 billion decline, an 11.8 percent drop from April. For the last 12 months, shipments by this industry have fallen from \$12.0 billion in May 1979 to the current volume of \$7.3 billion, an average of 3.3 percent per month. Shipments in the steel industry also continued to drop, as producers reported a decline of \$0.7 billion or 13.3 percent to \$4.7 billion. The only major industries reporting shipments increases were electrical and nonelectrical machinery, and instruments and related products. Increases of 2.0 percent in the total machinery category and 2.9 percent in the instruments category followed substantial declines in April of 4.7 percent and 10.5 percent, respectively.

Shipments by the nondurable goods industries increased \$0.9 billion or 1.3 percent to \$72.3 billion, following the April decline of 3.7 percent. A \$1.0 billion or 5.5 percent increase in the foods industry and a \$0.5 billion increase in petroleum products more than offset small declines in nearly all other categories.

The value of manufacturers' unfilled orders dropped \$2.5 billion or 0.9 percent in May to \$284.0 billion, following an April decline of 0.2 percent. Prior to the April decline, the last decrease was 0.6 percent in August 1976. The only major industries not contributing to the decline in backlog were aircraft (up 2.2 percent) and electrical machinery (up 0.4 percent) in the durable goods area, and paper and allied products (up 3.5 percent) in the nondurable goods area.

The book value of manufacturers' inventories showed an increase of \$0.6 billion or 0.2 percent to \$243.1 billion. This increase is relatively small compared to the April increase of 1.7 percent. But with the decline in manufacturers' shipments, the ratio of inventory to shipments edged up another 3 points to 1.71, the highest since December 1975.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for June is scheduled for release on July 22, 1980, and the full report is scheduled for release on July 31, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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TABLE 1. --VALUE OF MANCHALLERES' SHIPMANTS FOR INTESTM ORANS, MARKET CATEGORIES, AND SUPPLEMENTARY SIMILES

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	Durable goods with unfilled	54,052	61,18	. 1.5.1	7.	1 14. 4.	; ;	= :	66,177	5.2.4 2.4.4.8.2.4		7	7	7	7	# Y r
	Nondurable goods industries,	72,336	/1, 48.7	1,150		. 0,11	· •		, . , . l4	£	-		10.		=	
	Nondurable goods with unfilled orders	14,942	1.,14	115,231	1	· · · · · · · · · · · · · · · · · · ·	, c.	- -;	14,875	=1 =: -:	÷	· .	2	÷.	14.,17.	
			1	1	1			114971.	MROBIN	ANI SPREMENTAL SERIES	GNINI SER	IES	1	- 1		
	Market categories: Home goods and apparel	10,453	25, 170	11,138	11/2	11.	J. i	13	F 88.55	; ; = ;	7.7	48.91	6 F	\$ 1.4.5. 20.4.5.	2 % 2 %	\$ \$
	Hquipment and defense pro- ducts, except automotive Automotive equipment	21,888	21,15	1,404	21, 40.7	15, 70	5.7	14	12,087	11,157	13,73	11,115	14,41	5.7	20,882	14,44
	Construction materials, sup- plies, and intermediate products	10,709	11,643	12,00°	77.	14,554	8,7	Ţ.	11,200	12,008	12,049	11,162	13, 174	15.34	12, 3, 1	13,454
	Other materials and supplies and intermediate products	63,808	65,521	68,381	, 74,	204, 312	141,137	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	168,23	67,341	1,1,1	14,85	62,135	58, 202	n3.54r	14,6 81
	Supplementary series. 1 flowebald durable goust indus- flow factors. (aptial goods industries. Nontefense.	4,471 24,414 20,982 3,432	23,424 23,411 20,625 3,286	2,891 21,52 1,52 5,38 5,384	24,652	15,209 2,079 63,676 9,714	14,479 64,482 60,047 4,378	250 1. 4 250 1. 4 250 1. 4 3 2 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4,369 24,436 20,961 3,475	24,256	5, 132 26, 234 25, 835 2, 429	5,374 25,102 21,853 3,244	X X X X X X X X X X X X X X X X X X X	21,447	23,734	4 432 21,740 18,47 2,749
								IND	TSTRY UROL	INDESTRA GROUPS AND INDUSTRIES	STRIES					
32	Narable goods industries: Stone, clay, and glass products	3,732	3,944	3,898	4,215	12,650	12,501	25.53	3,866	4,310	5, 7449 10,2	35.5	4, 2%3	3, 424	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	3,345
331	Primary metals, total,	10,317	11,333	12,194	5,849	38,196 17,490	35,906	15,527	11,038	12,133	13,355	5,922	13,055	11 324	13,122	11,653
33-9	Nonferrous and other primary metals	4,702	4,869	1.277	5,820	17,155	15,177	14,642	5,027	5,302	5,662	5,843	5,173	4,841	5,143	4.753
34	Fabricated metal prod., total.	8,310	9,134	9,402	9,772	28,700	27,710	27,298	8,579	9,334	4,693	9,570	9,620	4,895	61666	8,721
1961	drumsdrums	806	820	168	828	2,602	2,512	2,460	844	810	863	783	668	808	875	408
35 351 352	Machinery, except electrical, total. Engines and turbines Farm machinery and equipment	13,657 1,130 1,141	13,374	14,046	14,313 1,099 1,120	42,284	40,639	3,357	13,837 1,121 1,226	13,768	15,286	14,659	13,251	13,176	14,144	13,078
353 354 356	Construction, mining, and material handling equipment Metalworking machinery General industrial machinery	2,531 871 1,187	2,607	2,847	2,877	8,499	7,891 2,536 3,504	8,258 2,469 3,278	2,607 875 1,213	2,755	2,990	2,948	2,732	2,777	2,306 863	2.668 772 1,126

See footnotes at end of table.

Table 1. --VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

	Without seasonal adjustment1	Monthly	Last 4 months (a year ago)	Apr. Mar. Feb. May Apr. Mar. Feb. 1980 1979 1979 1979	INDUSTRY GROUPS, AND INDUSTRIES Continued	9,909 10,778 10,617 8,990 8,873 9,562 9,101	1,719	648 711 557 627 669	3,123 3,115 3,146 2,551 2,539 2,859 2,536 1,862 1,911 1,826 1,462 1,463 1,463 1,463 1,457	14,959 16,368 16,224 18,190 17,090 14,223 17,259 8,724 9,938 10,224 12,883 11,568 13,424 12,558	4,312 4,286 3,999 3,635 3,574 4,027, 3,285	820 885 798 627 784 636 649	1,217 3,719 3,485 2,943 2,837 1,058 2,789 1,825 1,851 1,055 1,827 1,551 1,070 1,827 1,079 991 991 974 1,079 924	7,134 7,699 7,709 7,685 7,741 7,833 7,027	19,035 20,942 20,391 19,268 18,744 19,875 19,037 4,469 2,436 2,203 21,199 268 18,744 19,875 19,037 2,277 2,319 2,426 2,248 2,311 2,318 1,325 2,005 2,310 2,3	1,175 1,019 1,061 1,040 952 985 4,077 3,637 4,193 4,441 4,258 3,973 3,973 3,838 4,077 3,637	5,921 6,012 5,989 5,617 5,404 7,619 4,179 (1.792 1.784 1.772 1.804 1.772 1.804 1.772 1.804 1.772 1.804 1.772 1.804 1.772 1.804 1.772 1.804 1.772 1.804 1.772 1.804 1.773 1.474 1.774 1.774 1.774 1.775 1.472	13,991 14,756 13,837 12,896 12,476 13,121 11,304		14,116 14,578 14,568 10,388 9,8001 10,015 9,704	3,695 5,879 3,930 3,893 3,812 4,145 1,829	10,102 10,495 10,602 9,210 8,902 4,207 4,414
dollars)				9 May 1980P	STRY GROUPS, AND	27,756 9,858			8,106 3,196 4,620 1,812	47,174 14,066 30,313 7,776	11,522 4,362	2,184 917	9,161 3,341 5,305 1,914 3,230 1,256	22,912 6,732	59,577 20,053 15,102 4,600 6,926 2,838 5,106 1,495 24,158 8,136	3,212 1,173 11,951 4,101	17,021 5,816 7,707 2,743 3,550 1,299 5,663 1,774	38,150 13,307	13,396 4,511	15,096 14,461	11,256 3,468	9,715 9,835
(Millions of dollars)		Quarterly		1979 1979	INDC	28,614	5,032	1,754	8,677	45,279	11,125 11,	2,346	9,567	23,274	60,880 15,568 7,165 4,882 25,059	3,133	16,833 7,889 3,719 5,226	39,813	13,772	38,430	11,009	30 613
	usted			1980		10,471 30,858	,761 5,358		3,147 8,902 1,798 5,339	15,860 46,064 9,876 28,039	3,191 10,441	844 2,655	3,613 10,623 2,009 6,047 1,410 4,021	8,066 23,659	20,175 60,656 4,985 14,653 2,551 7,512 1,648 4,997 8,212 24,997	1,144 3,231 4,323 12,690	2,857 17,787 2,803 8,282 1,374 4,105 1,680 5,400	13,508 41,144	4,804 14,653 3,534 10,680	14,349. 43,163	3,854 11,541	31 814
	Seasonally adjusted	ıly		1980 1980		10,352 10			2,938 3	14,962 15 8,831 9	4,053 3	928	3,643 3 2,097 2	7,423 8	20,364 20 4,791 2 2,702 2 1,727 1 1,727 8	1,041	5,863 2,746 1,347 1,770	13,079. 13	4,936	14,849	3,645	10 613
		Monthly		Apr. 1980 ^r		9,878	1,689		3,008	14,276	4,281		3 3,262 1,875 1,213	7,006	19,104 4,414 7 2,475 2 1,469 7 7,954	1,203	5,834 2,758 0 1,345 4 1,731	13,031	3 3,+86	~	3,519	100
				1980 ^p		10,067			3,220	13,447	4,322	076	3,358 1,889 1,291	6,576	20,152 4,432 2,737 1,512 8,484	1,157	5,723 2,659 11,280	12,812	4,325		3,374	10 366
			Industry			Electrical machinery, total	distribution equipment and industrial apparatus	Household appliances	Communication equipment	Transportation equipment, total	Aircraft, missiles, and	Shipbuilding and military tank vehicles	Instruments and related products, total	All other durable goods industries	Nondurable goods industries: Food and Kindred products, fotal. Neat products Beverages Fats and oils All other foods	Te	Paper and allied products, total paper, etc. Pulp, paper, etc. Paperboard containers.	Chemicals and allied products,	Industrial chemicals, except pigments	Petroleum and coal products	Rubber and plastics products,	All other nondurable goods
			SIC			36	1	363	366	37.1	372,6	3731	38 381-4 386	24 25 39	20 201 208 207 203-6,9	21	26 261 265 265 264	28	281,6	29	30	23

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the cend of the period and are not adjusted for trading-day or the separate industry categories as follows:

Household durable goods industries - Household furniture; Kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and D; ophthalmic goods, watches, and closks, and miscellaneous

remeans goods industries series, is comparable to the previous Producers' Capital goods and the Defense Products (old series) categories.

Optial goods industries—The capital (excluding farm machinery and equipment and machinery) (excluding household appliances, radio and it and electrons of supporting and replace, community, encemptating and replace, community and ordnance.

Person of the supports on defense work flad by large defense contractors in the following industries: Ordnance, communication equipment, aircrist parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments of Defense-Ordented Industries, for the specified industries.

			2	12.0		11		. t.	4, 44,	7		ж] * н			1 × 100 × 10		1,113	. 11	1 494	, ř	3, 33, 33, 34, 34, 34, 34, 34, 34, 34, 3		5,587	N 13,845	1061	8 36.8	13 424	2,71
	that great		3 0 31	7.7		1 154 47.	7	3. 5	ř	ř	1111	1.000	1		81, 11		17,140	1	Ť	4 26.1	27,5 mg		1 180	14,318	5 45]	10,604	15,864	1,287
	rat sther		THE STATE SOUR	: 2		1. 3.	1 1. ,		7	5 h 40	ž	1, 16,	. I.s.		25		3.9.	1*15	, 111 v	. 5.84 10.44	23, #81 24, 52 145,			11. 4.35	706	9 135	115,40	2,902
	and at the country thanking the	V 619 S	100			1	*		, e	i i	4 2	3 s But	1 1 1		2			11		Ş	5 6; 2 5 1		7.	12,173	.,) '1	552.1	13.273	2.587
	. 1,4	5 2			* 5.		14. 41.1	- - - - -	-	*	7: 1:		10.33	13.5	7		1, 1,11	1.			3.41		1 104	14,1195	5,154	48.489	14,945	3.108 1.126 1.195
				1.1	edulis in	1 1 1 1	1	- - -	7	5.4 + 4.1	ī.	, , , , , , , , , , , , , , , , , , ,	4,73	s. PRIMATAM HRIDS	12 : 0		11.4	1, , ,1		ę, .	80.70	A STRIBS.	4 134	1, 859	\$60.4	144 +	15, 608	3,936 1,231 1,351
					. N. V.	, ,	٠ ٢	:	:	6. dil			· ·	VAL S. PERW	, ,		2 :	11 00	3.40%	;	15 080 10 10 10 10 10 10 10 10 10 10 10 10 10	IS WE IN	- 1,1	10,244,	155.4	4,151	11 :61	2,446
				· ·	. v	, gent's	B	- E	· ·		10.5	1	7				¥ 4	11,11	11,500	÷		INDESTRICT ORDERS AND INDESTRIES	3, '46	3, 440	4,513	8,303	13,115	2,371 836 1,222
Till is i line	-				MAN HA I	-11-	ť,				Ī	1	16, 40.	West I villeohte	<u>1</u> 2		i r		144,414	14 0.75	, 1, 2, 2, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	- ₁ Z	12, 239	15, 78,	15,0,4	27,437 {	3,273	8,307 3,117 3,276
7.11.17		Section 21.		:	. E		111 41.	1.,14.	:	1 21 2.88		1	les el		- ; ;		15,140	х •. ¥	1 4]	14 5 42	5 78 10.60 18.80	7	12.347	16, 593	15.830	28,115	1.854	8,273 2,923 3,363
	7	7		- £			:	Ī			-	44.	1, 19		- - (1) 3 (5 5 5 5	¥[7 4		7	1.62. 11.62.	4	1800	17, '00' . lo,831	1718	760'67	3,480	8,953 3,319 3,714
	ersonally allusted			***		l es wit.		1.	11, 21	1 th 1888	18, 18	1 4.1	3 2		1 2 2		11, 16.1	11,	1,6,5	:	25,161		2	13,086	. 958 5	10.224	14,247	3,018
	1.15 0.4		_	1 1000		_ ,		×1 1.7	3.	4.5, 65.4	14,511	1	5	4			10,. 1	1, ,	5.8 73 .	1.55.75		-1	3.4.6	11 141 4 5 162	6,830	9,718	14,300	2,841 1,087 1,319
		Mentury	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1000 20	75, (11)	7218	51 1 ax	, s	10,002	ate, 130		70 47. 1 1.145.		23 196	H pab.	ba. 0	e est	27,110]		1. 102	4,124	659'+	8.862	11,651	2,181
			-	148.1		1.19, 126	154,9824	21,518	87,4,70	57,016	11,84	14, 302	17,3 84		26,218		4,158	10,563	61,089	4,320	25,422 20,144 5,278 1		3,701	8,293	902 **	8,019	13,115	2,381 847 1,262
			Industry			All manulacturing andustricateral	Total, excludanc trans-	Total for industries sitte	tarable goods undustries,	parable goods orth artified adors	Nondurable goods unhastries,	ordens	industries anthon untilled		Market categorites, Nome, eads and appared,	rightheon and defense pr d-	uets, except autolotive,	plues, and internate prods.	other materials and supplies and intermediate products	supplementary series; ² industrial durable goods indus- tries.	Applial goods industries, Nonderlense, Defense,		furable goods industry stone, clay and glass	7		labricated metal products	Machinery, except electrical, total.	Construction, mining, and material handling equipment Mctalworking machinery General industrial machinery
			1-12																				2	132	333-5,9	34	35.	354 356

Table 2. --valut of manufacturers' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

Millions of dollars

				Seasc	Seasonally adjusted	pat					With	Without seasonal adjustment	al adjustme	ent1		
			Mont	Monthly			Quarterly					Monthly	ily			
	Industry	May	100	Mar	Feb.	-	ΙΛ	III		Last 4 months	months		Last	last - months a year ago.	a year a	. 02
		1980 ^p	1980	1980	1980	1980	1979	1979	Mayp 1980p	Apr.r	Mar. 1980	Feb. 1980	May 1973	Apr. 1979	Mar. 1979	Feb. 1979
								INDUSTR	INDUSTRY GROUPS AND INDUSTRIFESContinued	ND INDUSTR	HFSContr	nned	4			
	Electrical machinery, total	10,204	10.737	11,109	11,440	33,174	29,387	28,769	9,829	10,848	11,461	11.680	9,307	9,412	9, 921	10,764
	distribution equipment and industrial apparatus	1,643	2,030	1,955	1,897	5,485	5.147	5,124	1,589	2,166	2,047	2,048	1.717	1,891	1,765	1,769
	Radio and TV	069		601	833	2,075	1,497	1,861	582	679	555	845	338	529	PC6.1	877
	Communication equipment	3,454	3,574	3,526	3,569	10,374	8,997	8.420	3,285	3,610	5 632	3.527	2,892	2,456	2,917	0.070
	Electronic components	1,701		2,062	2,083	6,044	5,284	5,106	1,747	1.955	2,177	2,194	1,654	1,863	1,775	1.785
	Transportation equipment,	14,392	17.510	16,345	16,005	86, 87	49,345	51,200	13,815	17.517	17,141	16,132	14,148	18,510	21,061	:1 568
-	Dar taring	6,195	8.575	5,558	4,387	15,588	15,956	15,366	5,110	7,818	5,315	4,130	4,704	4,846	5.544	0, 415
1	tank vehicles	879	1,064	1,183	748	2,595	2,497	2,435	724	1,167	1,209	732	760	956	893	585
	Instruments and related products	3,366	3,174	3,695	3,760	11,096	9,721	9,362	3,308	3,175	3,8,8	3,630	2,934	2,938	3,253	2,777
	All other durable goods	6,338	6,842	7,542	8,010	73,857	23.293	22.848	609*4	7,102	7.324	7,760	7,759	8,0,8	7,970	7 108

Treatment. Theresed. Fraing-th, or valousarementh variations. The separate industry categories as follows. The supplementar series are regrespings of the separate industry categories as follows.

mosted goods, the forested furniture, kitchen ariseles and portery, cutlery, handreads, and harbark, howeledd appliances radio and TY quindray eachs, sat nes, and looks and rescellances. Auditated onds industries - The capital peods industries is comparable to the previous Predicers' Capital Goods industries, and enters' catterials. Note that the catterial resident in the catterial re

Table 1, -- ALE D MANEA PERS "MALLED ORDER FOR INSCREAM PARTS, WARRY ATT SOME AN SCIENCES SHIRE

Other ne of Locares

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				Se as 153	seas tailty ad acted	q						with	1, ×63× 10	Attho. * seas shall add as t ent?	ent1		
		Sont	Sonthly			J.,	quarter ly						Mon	Monthly			
Industrv	May	Ant	Nor	Fob	s	-		- /			I do f	1,11,1		las t	t + 1185	o Vent ages	÷
,	1980P	1980r	1980	1986	1979 ^r	1979	1979r	19791	1978	Van Lynch	Apr.	Mar. 1	Feb. 1980	May 1979	Apr. 1979	Mar. 1979	Feb.
						ALL.	MANTEN TIFING	ING DEPARTS	ANT	SADIRABLE CO	GOODS, BYTAL	1		-	•		
Total.	283,957	286,431	286,907	284,924	279,716	273,033	367,840	.58,*	. 34, 52.	2×4,2×4	JAK, 35.7	. 88,71	. 356,671	365,506	265,078	189,896	.55,95.
portation	174,137	177,555	181,265	180,667	176,804	174,193	173,089	189,,75	158, 114	175,786.	174,617	181,589	181,261	173,702	174,231	170,570	166,418
burable goods industries,	272,863	274,900	174,884	173,165	.67,879	761,74.	257,187	.47,706	£1, 41,	27.,454	. 76,455	.76,176	.74,931	. 54,745	254,172	.49, 393	243,337
Nondurable goods industries,	11,094	11,5,11	12,023	11,661	11,831	16.,11	16,651	Hi, see, 1	16,5c.	11, 31*	11,904	11. 11. 14.	11,740	10,761	10,906	10,503	10,617
							MARKET . 1	ATRIABILIS AND		STREETS STREET	31				4		1
Home goods and apparel	4,205	4,454	4,717	4,689	4,630	4966	7.6.	768	107	4,265	4,4,6	4,564	4,459	4,679	4,855	4,588	1 55
nots, except autom tive	160,953	160, 314	159,073	157,684	154,999	150,912	148,.49	144,254	154,836	159,819	166,583	159,429	158,597	146,380	145,636	144,541	141,291
Construction materials, sup- plies, and intermediate prods.	20,436	20,581	10,771	20,541	20,910	11,130	21,618	20,871	30, 526	20,634	26,751	20 , Blog	10,603	21, 364	21,400	20,898	20,524
ntermediate pr	98,363	101,082	10.2,346	102,010	99,171	96,026	93,64.	88,256	79,995	19,551	107,597	103,973	103,012	93,083	93,187	698,869	87,707
ipplementary series: 7 inosenial durable goods indus- tries: aptual goods industries: Nondefense, Nondefense, Defense;	1,321 189,725 136,817 52,908	1,472 188,718 137,657 51,061	3,680 185,519 136,118 49,401	3,648 183,077 134,881 48,196	3,475 179,310 1.51,819 47,492	1,923 17.,754 126,755 46,000	3,957 167,708 122,070 45,138	3,904 1159,864 1115,716 44,588	3, 394 147, 964 104, 402 43, 563	3, 348 188, 341 136, 283 52,058	3,451 188,837 137,819 51,018	3,535 186,009 136,312 49,697	3,431 184,180 135,561 48,619	3,813 163,859 118,889 44,970	3,976 162,127 117,288 44,839	3,734 160,167 115,312 44,850	3,615 156,295 1111,405 44,890
		1		1			ivbi	INDUSTRA GROUP	PS AND IND	STRIES	1						
rable goods industry																	
Stone, clay and glass	2,855	2,885	3,066	2,988	716.2	3,080	3,0063	2,821	2,953	2,948	3,019	3,116	1,981	3,160	3,175	2,865	2,874
Primary metals, total Blast furnaces, steel mills Nonferrous and other externa	25,854	27,876 16,088	29,528	30,586	29,962	30,276 .	31,658	31,041	27,055	27,137	29,129	30,963	31,449	33,066	33,946	32,515	31,320
	8,770	9,178	9,397	9,844	9,334	8,861	8,445	8,077	7,489	890'6	9,582	9,933	10,100	8,495	8,596	8,529	8,210
Fabricated metal products	28,173	28,464	28,737	28,400	28,382	27,976	27,839	27,600 .	26,213	28,168	28,448	28,654	28,370	27,924	27,818	27,520	26,853
Machinery, except electrical, total. Engines and turbines	57,728	58,270	59,994	16,767	58,779	57,585	57,105 16,896	56,248	53,071 16,608	57,837	58,559	60,068	60,045	56,615	56,590 16,724	56,300	54,578 16,794
ment	8,301 7,604 6,664	8,451 7,628 6,589	8,877 7,798 7,183	8,884 7,620 7,054	8,423 7,143 7,098	8,041 6,757 7,239	7,993	8,022 5,693 7,026	7,948 5,146 6,840	8,376 7,596 6,651	8,612 7,636 6,642	8,922 7,728 7,183	8,875 7,528 7,075	8,042 6,009 7,161	8,187 5,852 7,096	8,062 5,642 7,019	8,220 5,455 6,896
thates at end of table.							-					-	-	-			

333-6.

 (Millions of dollars)

		2	Feb. 1979		32,061	6,915	645	15,028	8,143	87,536	61,971	10,733	5,190	2,9:5	
		Last + months (a year ago)	Mar. 1979		32,420	6,921	634	15,086	8,455	89,326	63,488	10,991	5,384	3,063	
ent 1		4 months	Apr. 1979		32,960	7,160	537	15,004	8,855	90,847	64,763	11,162	987,6	3,350	
al adjustm	ıly	Las	May 1979		33,275	7,157	317	15,345	9,052	91,804	65,831	11,295	5,477	3,424	
Without seasonal adjustment	Monthly		Feb. 1980		37,179	7,626	453	17,102	10,727	105,410	81,271	10,975	6,333	3,164	
With		months	Mar. 1980		37,863	7,669	360	17,560	10,992	106,182	82,299	11,299	6,441	3,389	
		Last 4 months	Apr. 1980r	per	38,802	8,118	292	18,047	11,085	108,740	85,806	11,646	6, 399	3,357	
			May 1980 ^p	INDUSTRIESContinued	38,773	8,050	316	18,137	11,020	108,489	86,553	11,454	6,366	3,236	
		***	1978 ^r	DINDUSTRIE	30,487	6,772	543	14,200	7,634	81,003	56,133	11,017	5,086	2,951	
		,	1979 ^r	NDUSTRY GROUPS AND	32,518	6,914	695	15,113	8,472	88,882	63,096	10,924	5,407	3,189	
	Quarterly		1979 ^r	INDUSTRY	33,845	7,254	533	15,489	9,159	94,748	69,254	10,895	5,628	3,361	
pa			1979 ^r		34,858	7,418	665	15,803	6,644	98,840	73,098	11,146	5,830	3,297	
Seasonally adjusted		;	1979 ^r		35,631	7,531	342	16,123	10,308	102,906	77,929	11,297	5,985	3,317	
Seasona			1980		37,190	7,612	477	17,004	10,813	104,257	80,298	10,982	6,407	3, 395	
	ly.		Mar. 1980		37,944	7,657	395	17,592	11,014	105,642	81,804	11,237	65769	3,514	
	Monthly		Apr. 1980 ^r		38,808	7,999	330	18,159	11,074	108,876	660°98	11,502	6,371	3,350	
			1980 ^p		38,944	8,010	348	18,392	10,954	109.820	87,971	11,442	6,378	3,111	
		Industry group			Electrical machinery, total	distribution equipment and industrial apparatus	Radio and TV	Communication equipment	Electronic components	Transportation equipment,	Aircraft, missiles, and parts.	Shipbuilding and military tank vehicles	Instruments and related products	All other durable goods industries	3
		SIC			36	163	365	366	367	3.7	372,6	3731	38	39	2

ppreliminary, Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, untilled orders and inventities are of the end of the period and are adjusted for trading-²The supplementary series are regroupings of the separate industry categories as follows

thusehold durable goods industries - Household furniture; kitchen articles and portiery, cutlery, bandtools, and hardware, household appliances; radio and Ti, ophthalmic goods antohes, and cleek, and miscellaneous

Capital good industries - The capital goods industries series is comparable to the previous Produces? Capital Goods and the Defense Products fold Series) categories. The capital sexulation of the provision of the products of the product of the products of the product of the products of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the products of the product of the produc personal goods.

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established seasonal factors would have substantially distorted the current data since these seasonal lactors relies in the content parameter. The computer of the content parameter is an extension of the separate individual state of the content parameter. This addition the separate individual content and the content of the separate individual content and the content of the separate individual content and the content of the separate individual content and the content of the separate individual content and the content of the separate individual content and the content of Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding is contracts and other innancial arrangements. Although the impact of this change is not known, the use of privateds)

ABOVE ANALYSIST AND RECEIVED SPECIAL OF SOCIAL POLICE IN THE STANDARD WINDOWS TO RELEASE STANDARD.

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					or or	As Selvers to										-		
		i	Mont	31 · · V	-			Pass 16 E 23.		,				7 1011				1
SIC	Industry	-				5		-					, 4.	_	13.1		e 201	
		1880	1987	1980	¥ .	- 1	7.	12	7,		-	, and	r J.	, 45 , 45	MsA 1474	Vpr. 1974	Vort	1 etc.
						,	, iii	. 4: 0	N. I BAEL	N × 344 .		WE I .		1				1
	All manufacturing industries Total	244,150	242. 40	738. 31.	3 1 1	* *		- 44 611		** 55.	÷	,			F	; ; ;		1 1
	Total, calleling trans	210,000	1	2017.03	fis. set 1	4× 5			×,	ş	;	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		7 7	1	,	18	Ť.
	Total for industries with, unfilled orders	168,534	117, 341	31.76, 35		, x	111	16.7.41			;	* * * * * * * * * * * * * * * * * * * *		. 3.1.	1,211	£	14., 3.	Ť
	Durable goods industries, total,	160 .7.	1.0,877	1.7, 1.7	311.	× .	× .	χ.	3 0				r.		7	134, 1154	35,150	.35,193
	Invalde goods with untilled	1 . 1 1.78	1,18,7	, 44 th.X	110.00	14 . 133	138, 137	13153			i 1		14.1,14×	111	3 6 . 5	128, 837	107 (47)	124, 74*
	Nondurable goods Industries,	× 1	43.743	H1. 3+.	14,743	, <u>, , , , , , , , , , , , , , , , , , </u>	ž.,	7	У.	Y.	÷	ž v	4. 2. 2.	χ. α. 	1., 420	7127	; ;	70, 333
	Nondurable good: with unfittled	18,816	18, 737	18, 441	, K. 1 3%	. 7, 431	316.5	***	ri 4,		10.00	43.	- x	. 7, 481	. 6. 4 IA	1. 4.	. P. 104	x ⁴
			4					TANKEL CA	TW 111. 3	M STEPLE	M STEPHENS IN HERE	· /		4	-	-		4
	Market categorites Home goods and apparel Consumer staple	18.257	30,418	18, 198	17,838	2. 7. 1844	26,63	1 %	- 1	44 43	- - - - - - - - - - - - - - - - - - -	15, 718	- 12 12	30,270	17, 488	.7.414	17,328	17, 333
	Equipment and letense products, except automotive	4,488	10,438	64, 718 10, 183	13,716	342	£ 1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	21.		5 , 4 EG	10.4	10,382	### ##################################	54,873	13.4.1	11.331	. L.
	plies, and intermediate products.	20,143	, a, 165	20, 166	19, 7,	19,546	18, 44,	7 7	13, 324	.714	2.07,46.7	20,618	-0.075	20, 935	18.79-	18, 6, 7	18, 369	18,122
	and interredigte products	1.318	96, 405	1 86 7	43, 246	89, 311;	8.50	8	Bres 6	, 1 H.5,	Ġ.	46, 184	77	44,1176	81, 111	81,173	74,334	78.87.
	Supplementary series Household durable goods indus- tries. Capital goods industries	9,553	13,741	9,311	4, 234 71, 106	7 (RO)	20 50 50 50 50 50 50 50 50 50 50 50 50 50	8, 629	4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4	8. 751	15,45	1,043	4,35.	9,318 71,378	9,076	8,426	8, 841	8, 751
	Nondelense,		63,464	62, 102 10, 07s	4, 488 9, 619	9,462	8,533	7,983	7,586	48,17,	10.588	10, 280	52,813 10,040		53, 131	32,076	51,117	50, 157 7, 452
						1		ININI	STRY CROSS	PS AND INDI	STRIFS	4	,	:	7	-		
	Stone, clay, and glass, products	6,104	6,073	1867	. 758	5,643	5,436	5,361	5,140	4,873	6.272	6, 275	6,134	5,938	5,449	5,411	5,256	5,226
331	Blast furnaces, steel m	21,028	20, 789	20,387	20,382	19,803	19, 033	18,618	17,832	17,875 9,761	20,489	20,590	20,303	20,427	18, 199	18,487	17,766	18,018
60		7,842	7,889	7.848	7,658	7,563	7,166	6,915	6.677	6,876	1,929	7.992	7.93	7,757	6,950	016'9	6,750	6,772
	Fubricated metal prod., total. Metal cans, barrels, and drums.	19,879	19,747	19,659	19,490	19,402	18,716	18,512	17,751	16,940	20,218	20, 044	20, 003	19,568	18,441	18, 254	18,056	17,571
	Machinery, except electrical, total		38,624 2,748	37,609	37, 502 2, 696 3, 074	36, 624 2, 701 3, 108	35, 527 2, 630 2, 913	34,053	32,491	31, 013	39,475 2,729 3,281	39, 122	38, 193	37, 959 2, 713 3, 264	33,866	33,351	33,012	32, 295 2, 463 2, 463
	Construction, mining, and material handling equipment Mctalworking machinery General industrial machinery	8,685 2,542 3,751	8,489	8,308	8,311 2,391 3,701	8, 150 2, 314 3, 650	8, 099 2, 238 3, 520	7,963 2,184 3,322	2,083	7,051	8,685	8,608 2,550 3,752	8,499	8,503	7, 793	7,698 2,137 3,317	7,628 2,091 3,341	7,451 2,067 3,277
See f	footnotes at end of table.															_		

(Millions of dollars)

							(Millions	s of dollars)	(8)									
					Seasona	Seasonally adjusted	P						Witho	Without seasonal adjustment	1 adjustme	nt1		
			Mon	Monthly			õ	Quarterly						Monthly	1,4			
SIC	Industry	Mare	400	Mary	400	17	111		-	71.4		Last 4 mc	months		Last	4 months	(a year ago)	
		1980P	1980r	1980	1980	1979 ^F	1979 ^r	1979r	1979 ^r	1978r	May 1980P	Apr. 1980r	Mar. 1980	Feb. 1980	May 1979	Apr. 1979	Mar. 1979	Feb. 1979
								INDUSTRY	GROUPS AND	INDUSTRIES	SZ							
36	Electrical machinery, total Electrical transmission	21,845	21,999	21,620	21,413	20,598	19,462	18, 689	18,048	17,082	22,385	22, 279	21, 729	21, 291	18,937	18,458	18, 129	17,653
16.3	and distribution equipment and industrial apparatus	3,989	3,965	3,868	3,918	3,770	3,637	3,514	3,366	3,262	4,056	4,017	3,890	3,912	3,534	3,492	3,387	3,306
365 366 367	Radio and appraises. Radio and continuous. Communication equipment Electronic components	1,100	1,105 7,889 3,290	1,053	1,010	1,039 7,095 3,099	970 6,588 2,897	6, 134 2, 839	2, 521 1, 012 5, 830 2, 712	1,029 1,029 5,412 2,518	1,152 7,984 3,369	2, 327 1, 097 7, 911 3, 327	7, 799 3, 263	7,507 3.216	2, 107 6, 070 2, 850	5, 958 2, 721	5,875 2,728	2, 568
37	Transportation equipment, total	32,184	32, 121 8, 019	31,447	30,630	29,916	28,638	27,337	25, 734	24, 151	32,202	32,221	31, 709	30,910	26,971	26,471	25,947	26, 134
372,6	Aircraft, missiles, and parts	19,827	19,380	19,049	18, 299	17,417	15,549	14,653	13, 175	12,604	19,990	19,539	19, 192	18,423	14,103	13, 707	13,267	13, 238
3731	Shipbuilding and military tank vehicles	2,264	2,240	2,130	2, 125	2,165	2,034	1,714	1,728	1,760	2,281	2, 234	2,146	2,044,	1,746	1,612	1,738	1,716
38 381-4 386	Instruments and related products, total	8,355 5,780 2,114	8,296 5,687 2,149	8, 237 5, 597 2, 155	8, 128 5, 472 2, 175	7, 765 5, 291 1, 986	7,471 5,021	7,317	7, 004	6,510 4,269 1,763	8,514 5,861 2,179	8,389 5,733 2,192	8,264 5,636 2,146	8, 130 5, 494 2, 158	7,319	7,154	7,023	6, 790 4,454 1,850
24 25 39	All other durable goods industries	12,089	12, 228	12, 181	12,018	11,936	11,766	11,594	11,267	11,012	12,185	12,386	12,386	12,247	11,515	11,478	11,461	11,406
20 201 201	Nondurable goods industries: Food and kindred products, total Meat products.	20,127	20,292	20,431	20,505	20,397	19,780	19, 957 1, 719	18,118	17, 298	19,482	19,909	20,181	20,675 1,909	17,923	17,939	17,924	18, 036 1, 655
207			1,634	11, 333	1,924	1,913	1,718	1,571	1,544	1,453	1,584	1,711	1,821	2,070	1,496	1,580	1,722	9,713
21	Tobacco products	3,477	3,475	3,506	3,506	3,503	3,762	3,608	3,599	3,602	3,400	3,544	3,653	3,762	3,521	3,654	3,754	3,796
3.6	Paper and allied products.		0,14	200	7,704	7, 044			***	***************************************		200	† ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	7000	7,043	0 0 0 0	7,013	***************************************
261-3 265 264	total. Pulp, paper, etc Paperboard containers	7,473 2,612 2,030 2,831	7,416	7,296	7,156	6, 795 2, 319 1, 909	6,422 2,143 1,834	6,315 2,087 1,778	2,048	5,889 2,004 1,717	7,648 2,663 2,059 2,926	7,515 2,569 2,007	7,232 2,443 1,960	7,073 2,408 1,933	6, 398 2, 129 1, 786	6, 271 2, 086 1, 787	6,005 2,055 1,741	5,875 1,987 1,710
28	Chemicals and allied products, total		19,274	18,677	18,429	16,982	16,492	15,916	15,627	15,439	19,092	19,243	18,855	18, 776	15,797	15,918	15,796	.5.870
283,4	Industrial chemicals, except pigments Drugs, soap, and tolletries.	6,362	6,316	6,055	5,982	5,246	4,975	4,687	4,537	4,569	6.267	6,209	5,982	6,054	4,646	4,564	4,487	4,588
30	Petroleum and coal products	8,386	8,388	8,062	7.297	6,581	6,343	5,402	5, 143	5,359	8,329	8,035	7,647	7, 133	5,031	5,615	4,890	5,364
	D. A. C.	5,005	5,098	7,954	4,840	4,777	076.7	4,859	4, 716	4,629	5,072	5,185	5,078	4,964	4,915	4,956	4,837	4,755
23 27 31	All other nondurable goods industries	12,649	12,577	12.373	12,087	11,690	11,859	11,688	11,514	10,998	13,072	12, 718	12,266	11,842	12,018	11,655	11,411	11,123
PPro	Precliminary, Revised,												1	1	an Lag			

Proforminary. Revised are to totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the roul of the period and are not adjusted for trading-day or calendar-month variations.
The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and IV uphthalmic gwids, watches, and clocks; and niscellances for the personal cooks and articles are constructed. The capital cooks industries error comparable to the previous Producers' Capital Goods and the Defense of the capital goods industries are considered and watcher and exterior and exterior and exterior parable construction of the parable of the parable of the capital and articles produces produce of suppulling and experiment, construction and the parable of the parable

Table 5. -- VALUE OF WANTFACTURERS INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP

Industry	Мву 1980Р	Apr.	Mar.	Seasona Feb.	lly adjust	1111 1111 1111	uarterly 11 1979 ^F	16791	1978 ^T	Way 1980P	Apr.	Mar.	Nonth leb.	ly last	Apr.	Nar igo 1974	Fr 8
industries, total. se, total. se products.	243,120 166,572 6,104 21,028 19,7879 39,088 21,845 87,184 87,184	154.877 6,073 6,073 187,247 187,247 187,247 187,247 187,247 187,247 187,247	238,522 157,127 5,487 20,487 17,650 81,647 81,647 81,647 81,647	25. 314 27. 324 37. 324 37. 326 37. 33 37. 41 37. 41 37. 41 37. 41 37. 41	151, 481, 151, 481, 151, 481, 151, 481, 151, 151, 151, 151, 151, 151, 151, 1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			6 17 8 17 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	212,212 35,649 36,649 36,649 36,649 37,649 37,649 37,649 31,649 3	15. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	100, 45 100, 65 100, 6	137, 528 117, 518 117, 518 117, 518 117, 518 117, 553 117,
products	82, 548 19, 794 8, 386 5,005 49, 863	82, 003 17,27 s 8, 888 7, 988 40, 603	181, 181 5.00, 18 4.00, 18 4.00, 18	# 24.2.4.2 # 24.2.4.2	1 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	REINA		11.5.1.3 5.11.3 4.7.18 4.4.4.4 WA TH ROTALL	1 4 8 8 1 4 4 4 4 1 5 4 4 4 1 5 6 2 4 2 5 4 5 5 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	27527		20,288 18, 75, 7,133 4,964	71,425	71,227 15,418 2,015 4,456	15,745 4,845 4,837 46,907	70,333 15,870 5,064 4,755 44,044
All manufacturing industries, total Permatric goods industries, total Permatric goods industries, total Permatric goods and permatric Permatric goods and himry Rectical mechanics Franchist in mechanics Fran	92,751 50,319 2,316 8,221 0,837 10,787 6,817 10,787 6,847 4,944	25, 20 mm s 2 mm	4	4, 24, 24, 24, 24, 24, 24, 24, 24, 24, 2		14104944		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		82,461 9,935 9,936 9,648 1,841 1,841 1,841 1,841 1,841	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		12 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2,1mp 2,02° 2,02° 6,44° 6,44° 7,48° 2,43° 2,43° 2,173 4,473	21, cell 1, 28, 2 1, 28, 2 1, 28, 2 1, 28, 2 1, 28, 2 2, 281 2, 281 2, 281 2, 281 2, 281	21,352 43,334 1,458 1,146 1,14	70,082 1,907 1,907 1,907 2,009 2,009 4,512
ands industries, total	3.,432 7,100 1,862 1,941 1,941	72,322 7,158 1,981 21,285	11, 46, 11, 11, 12, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	1,133	20,750 20,750	1, 721 1, 721 10,000	1,527 1,517 1,677 1,677 1,677	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26, 714 2, 500 1, 350 1, 550 16, 350	2, 35 2, 19 1, 915 11, 482	12,433 1,747 1,747 1,914 21,448	1,37 1,866 1,866 1,814	31,627	27, 941 , 888 1, 964 1, 940 18, 943	28,130 5,837 1,454 1,695 19,184	27,463 5,811 1,641 1,579 19,132	27, 584 5, 538 11, 310 11, 526 19, 112
R Industries, total Fries, (total Fries, (84, 189 71,567 876 8, 100 18, 100 18, 100 19,	43,3n8 70,594 8684 17,7n 10,531 19,477 12,885 12,774 2,681 2,681 2,681 2,681 2,681 3,741 4,744 12,744 12,744 12,744 12,744 14,74	2, 2, 2, 2, 2, 2, 3, 2, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	78,611 66,837 89,083 11,952 110,084 17,812 17,81	25, 1487 17, 1897 17, 1897 17, 1897 18, 1897 11, 888 11, 888 11, 888 11, 888 11, 888 11, 888 11, 888	11, 13, 13, 13, 13, 13, 13, 13, 13, 13,	77, 72, 73, 73, 73, 73, 73, 73, 73, 73, 73, 73	2, 2, 2, 3, 2, 2, 2, 3, 2, 2, 3, 2, 3, 2, 3, 2, 3, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	24,7.11 7,4011 930 7,452 8,548 8,548 118,141 119,612 1,985 2,842 11,710 2,642 11,710 2,643 6,793	71,138 71,138 71,138 71,138 71,130 10,130 11,740 7,740 7,420 7,40 7,40 7,40 7,40 7,40 7,40 7,40 7,4	2	81,1'4 '81,4'4 '436 '10,34'4 10,34'7 10,34'7 11,2'34' 2,124' 2,044 2,044 2,044 2,044 2,044 2,044	71, 337 11, 537 11, 505 11, 505 11, 505 11, 505 11, 505 11, 505 11, 505 11, 530 11,	(9, 572, 772, 772, 772, 772, 772, 772, 772	28, 2019 210, 2019 210, 2019 211, 2019 21, 2019	7, 199 7, 100 14, 858 8, 300 14, 585 1, 455 2, 573 1, 452 1, 452
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Table 6. MANUFACTURERS' SHIFMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

	М	lonth-to-mont	h	Ave	rage monthly	rates of ch	ange	Average,	1975-1979
Item and industry group	Apr	Mar	Feb		3 months		12 months		
	May 1980	Apr. 1980	Mar, 1980	FebMay 1980	Nov. 1979- Feb. 1980	AugNov. 1979	May 1979- May 1980	Average	Average decline
Shipments:									
All manufacturing industries	-1.3	-4.3	-1.8	-2.5	+2.0	+0.4	+0.2	+1.6	-1.2
Durable goods industries, total	-3.8	-4.9	-4.1	-4.3	+2.4	-0.3	-0.6	+1.9	-1.9
Nondurable goods industries, total	+1.3	-3.7	+0.6	-0.6	+1.5	+1.1	+0.8	+1.6	-0.7
Total inventories: All manufacturing industries	+0.2	+1.7	+1.5	+1.1	+1.3	+1.2	+1.3	+0.7	-0.3
New orders:					1				
All manufacturing industries	-2.6	-5.9	-1.6	-3.4	+1.7	+0.8	-0.2	+1.9	-1.2
Durable goods industries, total	-6.6	-6.9	-4.3	-5.9	+2.2	+0.5	-1.0	+2.8	-2.0
Nondurable goods industries, total	+1.4	-4.9	+1.3	-0.7	+1.2	+1.1	+0.7	+1.5	-0.7
Unfilled orders: Durable goods industries, total	-0.7	+0.0	+0.6	-0.0	+1.0	+0.8	+0.6	+1.2	-0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(based on seasonally adjusted data)

Industry group		Inventori	esshipments	ratio	Unfi	lled orders (months'	shipments rati	101
Industry group	May 1980	Apr. 1980	Mar. 1980	Feb. 1980	May 1980	Apr. 1980	Mar. 1980	Feb. 1980
All manufacturing industries, total	1.71	1.69	1.59	1.54	3.84	3.75	3.62	3.53
Durable goods industries, total. Stone, clay, and glass products. Primary motals. Fabricated metals Machinery, except electrical Electrical machinery. Transportation equipment. Instruments and related products.	2.31 1.64 2.04 2.39 2.86 2.17 2.39 2.49	2,21 1,54 1,83 2,16 2,89 2,23 2,25 2,54	2.07 1.54 1.67 2.09 2.68 2.09 2.10 2.26	1.96 1.36 1.59 1.99 2.62 2.04 1.93 2.25	4.62 0.85 2.51 3.75 4.61 3.87 13.45	4.49 0.81 2.46 3.42 4.69 3.93 13.05 1,95	4.30 0.86 2.42 3.38 4.59 3.67 12.32	4.17 0.78 2.38 3.18- 4.55 3.55 12.35
Nondurable goods industries, total. Food and kindred products. Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.c.	1.14 1.00 3.01 1.52 1.31 1.51 0.57 1.48	1.16 1.06 2.89 1.47 1.27 1.48 0.59	1.10 1.00 3.37 1.46 1.24 1.36 0.54	1.08 1.02 3.06 1.38 1.22 1.36 0.51	0.74 (X) (X) (NA) (NA) (X) (X) (X)	0,76 (X) (X) (NA) (NA) (X) (X)	0.79 (X) (X) (NA) (NA) (X) (X) (X)	0.77 (X) (X) (NA) (NA) (X) (X)

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

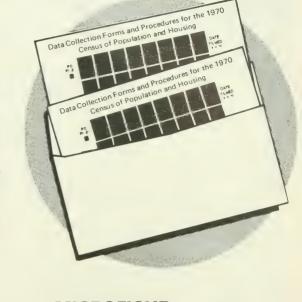
Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Shipments, Inventories, and Orders

JUNE 1980

U.S. Department of Commerce BUREAU OF THE CENSUS

M3-1 (80)-6 FOR WIRE TRANSMISSION 2:30 P.M. Thursday, July 31, 1980

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured products in June declined \$0.7 billion or 0.5 percent to \$138.2 billion the Department of Commerce, Bureau of the Census reported today. This is the fifth consecutive monthly decline for the series.

New orders for the durable goods industries dropped \$0.7 billion or 1.0 percent to \$66.6 billion. The decline for new orders has been revised from the earlier reported 2.8 percent decline. Most of the revision was due to more complete reporting in the transportation equipment industries.

Without the transportation equipment industries, new orders for durable goods in June showed a 0.8 percent increase over May. A large increase in new orders was reported by primary metal producers. Orders were up \$0.7 billion or 8.7 percent to \$9.1 billion. This is the first increase for this industry since January when the volume of orders was substantially higher, valued at \$13.5 billion.

New orders for transportation equipment declined \$1.1 billion or 7.8 percent, with a \$1.3 billion or 21 percent decrease in the aircraft industry. Although this was the second consecutive monthly decline in aircraft orders, the new orders level for the aircraft industry continued to exceed the shipments level. Reflecting the decline in aircraft orders, new orders for the defense capital goods declined \$1.8 billion or 35 percent to \$3.5 billion, following 4 consecutive monthly increases. New orders for nondefense capital goods increased \$0.2 billion or 1.1 percent to \$19.8 billion.

New orders for the machinery industries declined \$0.3 billion or 1.3 percent to \$22.4 billion with both the electrical and nonelectrical industries showing decreases. While orders for nonelectrical machinery have been fluctuating for the past 4 months, electrical machinery orders have been steadily declining.

The value of manufacturers' shipments declined for the fourth consecutive month, down \$0.7 billion or 0.5 percent to \$140.9 billion. Over three-fourths of the decline occurred in the durable goods industries where shipments declined \$0.5 billion or 0.8

percent to \$68.9 billion. The shipments for the primary metals industries were down \$0.4 billion or 4.1 percent, with most of the decline in the steel category.

The value of manufacturers' unfilled orders declined \$2.6 billion or 0.9 percent in June to \$281.4 billion, following declines in May and April of 0.9 percent and 0.1 percent, respectively. Most major industry categories in the durable goods industries contributed to the durable goods decline of \$2.3 billion, except the transportation equipment industries where the unfilled orders increased \$0.3 billion or 0.3 percent.

The book value of manuracturers' inventories showed a slight increase over May of \$0.3 billion or 0.1 percent to \$243.7 billion. The \$0.5 billion or 0.5 percent increase in the inventories held by nondurable goods producers offset the \$0.1 billion or 0.1 percent decrease in durable goods producers' inventories. With the declines in shipments, the ratio of inventory to shipments increased for the fifth consecutive month. The ratio has risen from 1.53 in January to 1.73 in June.

During the second quarter of 1980, shipments of manufactured products were \$426.0 billion, \$29.1 billion or 6.4 percent below the first quarter shipments of \$455.1 billion. Shipments for durable goods industries declined in the second quarter by \$22.5 billion or 9.6 percent to \$210.5 billion. New orders for durable goods received during the second quarter were 14.0 percent below orders received in the first quarter. Inventories for all manufacturing industries at the end of the second quarter were 2.2 percent above first quarter.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for July is scheduled for release on August 21, 1980, and the full report is scheduled for release on September 2, 1980.

COT 27 (93)

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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Table 1. --VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

				Seasonally	lly adjusted							Without	out seasonal	al adjustment ¹	int1			
			Mon	Monthly		9	Quarterly					Monthly	ly.				Year to	date
SIC	Industry				100	:	,			Last 4 m	months		Last	4 months ((a year ago)	3		
		Jun. 1980 ^p	1980r	Apr. 1980	1980	1980	1980	1979	Jun p	May 1980 ^F	Apr. 1980	Mar. 1980	Jun. 1979	May 1979	Apr. 1979	Mar. 1979	1980	1979
								INDUSTRY	GROUPS, AND	D INDUSTRIES	SContinued	ned					1	
36	Electrical machinery, total Electrical transmission and	9,877	10.048	9,878	10,352	29,803	30,858	28,614	10,481	9,838	606'6	10,778	9,851	8.990	8,873	9,562	60,827	54 505
363	distribution equipment and industrial apparatus		1,633	1,689	1,909	5,031	5,358	5,033	1,841	1,656	1,717	2,004	1,805	1,718	1,652	1,760	10,710	10.221
365 366 367	Radio and TV Communication equipment Electronic components	3,004 1,863	9,218 1,823	9,008 1,819	683 2,938 1,861	1,888	2,022 8,902 5,339	1,754 8,677 4,620	3,238	3,193 1,814	3,123 1,862	3,175 1,911	2,870 1,564	2,557	627 2.539 1.463	2,859	3,622 18,472 10,929	3 845 15 636 8,652
37	Transportation equipment, total	12,896	13,299	14,276	14,962	40,471	46,063	45,279	14,243	13,922	14,959	16,368	17,086	18.190	17,090	19.273	89,619	105 890 73 848
372,6	Aircraft, missiles, and parts	3,944	4,292	4,281	4,053	12,517	11.714	11,125	4,319	4,333	4,312	4,286	3,713	3,635	3,574	4,027	24,468	21,444
3731	Shipbuilding and military tank vehicles	765	862	799	928	2,426	2,655	2,346	816	842	820	885	736	627	784	636	4,930	4,034
38 381-4 386	Instruments and related products, total	3,348 1,959 1,221	3,334 1,884 1,274	3,262 1,875 1,213	3,643 2,097 1,371	9,944 5,718 3,708	10,623	9,566	3,575 2,097 1,303	3,318 1,909 1,240	3.217 1.886 1.162	3,719 2,183 1,352	3,211	2.943 1.751 991	2,837	3.058 1.827 1.029	20,344 11,900 7,395	17.327 10 302 5.873
24 25 39	All other durable goods industries	6,925	6,707	7,006	7,423	20,638	23,661	23,273	7,402	6.854	7,134	7,699	7,928	7,685	7,741	7 833	43,630	44,272
20 201 208 207 207 203-6,9	Nondurable goods industries: Food and kindred products, total Neat products Everages Fars and oils.	20,327 4,591 2,686 1,378 8,686	20,116 4,465 2,604 1,516 8,537	19,104 4,414 2,475 1,469 7,954	20,364 4,791 2,402 1,727 8,543	59,547 13,470 7,765 4,363 25,177	60.656 14,653 7,512 4,997 24,997	60,880 15,568 7,165 4,882 25,059	20,606 4,628 3,053 1,403 8,539	20,013 4,635 2,700 1,500 8,187	19.035 4.449 2.519 1,506 7,771	20.942 4.777 2.448 1.754 9.048	19,604 5,137 2,611 1,580 7,540	19,268 5,368 2,371 1,553 7,286	18.754 5,189 2,285 1,535 7,239	19,875 5,424 2,323 1,648 7,906	119,890 28,164 15,082 9,507 49,907	114.045 31,385 13,389 9,493 44,332
21	Tobacco products	3,938	1,129	1,203	1,041	3,269	3,231	3,133	4,173	1,145	1 175	1,019	4,207	3.9"3	3.838	985	34,946	5,735
26 261-3 265 264	Paper and allied products, total Pulp, paper, etc Pulp, paper, etc Paperboard containers All other paper containers.	5,665 2,747 1,275 1,643	5,649 2,661 1,242 1,746	5,834 2,758 1,345 1,731	5,863 2,746 1,347 1,770	17,148 8,166 3,862 5,120	17,787 8,282 4,105 5,400	16,834 7,889 3,719 5,226	5,984 2,873 1,315 1,796	5,742 2,745 1,260 1,737	5,921 2,828 1,361 1,732	6,032 2,838 1,394 1,800	5,770 2,633 1,237 1,900	5,637 2,569 1,234 1,834	5,464 2,506 1,221 1,737	5,639 2,610 [1,251 1,778	35,353 16,680 8,013 16,765	32,626 14,786 7,235 10,505
28	Chemicals and allied products, total	12,315	12,701	13,031	13,709	38,047	41,144	39,813	13,061	13,150	13,991	14,766	13,175	12,898	12,476	13 171	81,7,3	74,135
281,6	industrial chemicals, except pigments Drugs, soap, and tolletries.	4,085	4,323	4,680	3,631	13,088	14,653	13,771	4,309	4,509	5,022	5,370	4,562	3.024	4,355	4,575	18,878	25,756
62.0	Petroleum and coal products	14,945	14,751	14,213	14,849	43,909	43,163	38,431	15,019	14,485	14,116	14,578	10,909	10,388	9,800	10 01	80,243	
20	Rubber and plastics products,	3,284	3,311	3,519	3,645	10,114	11,541	11,009	3,477	3,404	3 695	3,879	3.923	3.893	3,812	4,145	74	22.939
23	All other nondurable goods industries	10,548	10,423	10,307	10,513	31,278	31,814	30,613	10,484	9,884	10,102	10,495	9,604	9,210	8,902	3.257	61,163	54 162
ppro	Preliminary, revised,																	

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are in of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; Kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, warches, and clocks, and mixerlandous

Capital poods industries—The capital goods industries series is comparable to the previous Produces" Capital goods and the Defense Products (old series) categories.

Nondering products—Sanchinery, radio and electrical (excluding fram machinery and equipment, and enterties) manifolds and electrical describing and radio and electrical capital and alteral to manage on separation and radio and equipment, communication equipment, and electrons of an angular regions of electrical and alteral to prize on electrical and alteral to prize on electrons of an annually in the Ma-US, Shipments of Defense contractors in the location and industries, for the specified industries (or the specified industries).

3

4

Table 2, --AACH of WANTACTIBES AN ORDER FOR DARSHIN OR UP., WENT ATHORITY AN OFFICERING AND STREET

							Will us	1 1 .1375										
				5038 of	seasonally aljusted	ted.								J				
			Sk n this	813		,	Jirteriv					27.77	4				- 200	17.1
-	Industry									7	:		138	:	4 11 15			
		l exot	Max 1 este ⁷	J +Hr	1 м	= :	3.08	: <u>.</u>	} 1 <u>3₹</u>	F Sign	= :	3 %	Tuta			1 2 5 5	ţ.	, p
		,		4			411	SAMES THE	N taked.	. 22 .	* - F24Ve.							
	Vil manutar faring industries:	134,265	138,970	143,313	1.2, 4	45.4.05.4	4.2.2.4				,	104,24				,	: ?	· -:
	portal, excluding trans-	12,000	124, 800		131,22	1		11.0,500		11177111						3	7.	
	initial for industries with unfilled orders	8	11,470	76, 48×	, , , l , l ×	. × . ×	·	4				1	-1.1.		* -	100 100 100 100 100 100 100 100 100 100	- ()	: - : - : - :
	barable goods industries,	66, 628	17, 178	7,410	ş ·	2011, 33	244. 1.	7.0	*. *.	5	, , , , , , , , , , , , , , , , , , ,	:			, x , z , z , z , z , z , z , z , z , z		64.	2 C
	purable goods with untilled		2,00.5	. 1, 5'11		1.4,45%	· .				13	0.3 %	1		* * * * * * * * * * * * * * * * * * * *	1	· · · · · · · · · · · · · · · · · · ·	+
	N neturable goods industries,		7. 5	, x 4.	ĩ.	.1.4, 19.8	2.5.5.5	.15,.1.	3.45	11.	, ,	1.0	 x	-1.1	¥ **			
	industries with antilled orders,,,,,	14,513	14,436	24,71.	11. 7	1,44,44	* * * *		***	1	;	1,, ×	, ,	* : * :	1	*		1
	industries aithout untilled	5°, Unh	7,150	, P., 1 &	·	150, 842	111, 20	105,762	÷.		į.		· ·		î.	7	9	•
		1		4	4			"Main 17 A	VIRSORIIS VA	- 12	NING SHIP	4				-		
	Market categories forms and ipparet	16,53h	10,283	25,105	11,165	11, 1894	- (1 d) (2 d) (2 d) (3 d) (3 d) (4 d	1 2 X	← 1. ¹ - 2	11		11,880 24,745	H,10%		- 40 -	+ 5, 54, 54, 54, 54, 54, 54, 54, 54, 54,	* * * * * * * * * * * * * * * * * * * *	14.1
	note; except and detense per de- note, except autonotive	20,437 8,497	8,348	23,186,	10,237	55, 450	13,20	[] <u>1</u>	Z +		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	× ******	21,424 13,444	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	14,541	1,140	131 '58 11,47'	34,873
	tenstruction materials, sup- pires, and informediate preds.	10,943	10,83×	11,4%	12,24	11,233	X X	£	1.,	;	11,4	12,, 1	, 5. E	*	1	1.,	X.	
	other maternals and supplies and intermediate products	nl, 403	1, 108	ne, br.	r8, 117	1 46, 154	E E	1 44,783	10.8, 115.	p. T		.,,,11	, 1%.	5		7	12.	Kan.
	supplementary series? Heasemoid durable goods indus- fries.	4,457	7(2,2)	4,713	5.76.77	13,587	7 2 2 2	1,1	2 2	÷	,7	36.2.36	5	9	a, solida	Ť	1	÷.
	Capital goods industries, sondefense, lefense,	23,266 19,811 3,455	19,589	22,162	22, 440	75,244	79,5'h 67,429 13,627	75,478	11, 45 11, 45 10, 50 10, 25, 385 18,850 4, 118	7,086	28,481 23,574 4,107	23,065	1,74	30,420	25,258	130,43	150,130	
					-		1	N.	DISTRY GROI	PS AND IN	I STRIFS	1	•					
24	Durable goods industry: Stone, thy and glass	3,731	5,775	2,765.	3,978	11,268 i	12,749	12,337	4,118	5,873	5,912	1 761,	4,387		*, 253	1,981	. 1,53.4.	13,440
33	Primary metals, total	9,089	5,354	4,680	11,141	27,152	15,831	305,541	3,485	4,126	10,249	11,800	12,178	12,173	1, 138	14,318	31,33	861,1
333-7,9		4,314	, sn8	650.4	088.4	15,331	17,218	15,451	4,536	4,587	, , , , , , , , , , , , , , , , , , ,	500	001.	5, 171	ž.,	\ . 4 4 h]	0.611	4 , 108
37	Fabricated metal products	8,226	н, 333	8,862	9,738	25,421	29,053	28,114	8,906	8,02n	4,131	477	4,765	4,725	9,195	10,554	1,015	50,761
35 15	Machinery, except electrical, total.	-	12,701	11,651	14,000	36,874	3,480	41,834	13,733	1,000	12.44	15, 508	14,691	13,273	11,404	15,864	260,48	73, 34,
354	construction, minus, and material handling equipment Metalworking machinory General industrial machinery	2,141	2,375 809 1,163	2,181 684 632	2,841 1,087 1,319	2,388	8, 953	8,272 2,923 3,363	2,308	., 36h 799 1,122	2,446	3,436 1,231 1,351	2,828 941 1,235	2,587 925 1,152	2,912 943 1,159	2,048	15,241 5,852 5,721	15,110 5,586 7,031
Sec	Sec fuotnotes at end of table,																	

TABLE 2. --VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES -- CONTINUED

Millions of dollars:

				Season	Seasonally adjusted	ed						witho	Without seasonal adjustment	1 adjustme	nt 1			1
			Mon	Monthly			Quarterly					Nontrilly	-1				hear to date	late
S1C	Industry									Last + m	menths		Last	last countils	a vear ag			
		June 1980 ^p	May 1980 ^F	1980	1980	1350	1480	1979	June	May 1 yest) ²	Apr 1980	Mar.	June 1 47%	Max .	Apr 1 474	Nar 1979	1 980	1979
		1				+		I Moustle	Not STREET GROUPS AND INDUSTRIES and managed	de imprestiti	111 111	ned						
36	Hectrical machinery, total	9,898	10,022	10,737	11,109	30,657	13,175	24,387	10,524	954, P	10,845	11,461	10, 08	1, 107	1,41.	4,421	- c	58,034
	distribution equipment and industrial apparatus	1,733	1,636		1,955	5,399	5,485	5,14r	1,812	1, 8	2,166	770	1,487	1,717	1,891	5 3 2 4	11, 40;	10,776
16.5	Household appliances	1,054	1,011		1,126	1,912	2,540	1,448	1,1 4	1,93,	479	1,185	1,180	1,07	1,067	6.0	3,75	1,847
366	Communication equipment	3,028	3,312	1,874	3,52h 2,062	9,914	10,374	5,284	1,872	1,144	1,955	3,152	74m	1,692	1,361	1,777	11,84	10, 484
3.7	Transportation equipment, total	13,201	14,320	17,510	16,345	.5,031	865. 4		14,2 m	11,74%	E process	17,141	18,7,4	× ,	Psysle	1 1	14.79.	
4.5.	parts	4,879	5,188	8,576	oc	19,043	15,508	15,955	270,11	, 104	7,838		7		5,540	Ť	12, 5h	n
2.6	tank vehicles	745	859	1,005	1,181	200	5 45	27.	F	, de	1,14	7.02	7	97,	1.11	51.3	1,	77
ž	instruments and related	3,245	3,390	1,174	5,64	* 577.4	11,096	F7.	3,580	7	1,174	**************************************	7.	7	£	7	1.1.1	,' <u>·</u>
366	All chaer durable goods	4,704	0,444	7,040	1,342	188,05	23 857	34.467	7,1.	of5,	, , , , , , , , , , , , , , , , , , ,	,			ACTO ⁴ ×	9,61	,,	140,71

Shipwow's and now orders are too totals for the period and are adjusted for trading-day and calendar-monthy, articles orders and intentiors and intentions.

"The supplementary services are repeated and the separate industry categories as 1-11/way.

Household graph, goods industries - Household furniture. Eithen articles and portery, cutlery, nandrods, and harboare, heavehold applications reds, and Tr. Schaller, and s. virtues, unrelease, nor elease heaven Hanson.

Capital goods industries. The capital goods industries is comparable to the previous fradices' tapital Goods and the british software statements. The capital of the statement o

Table 3. --value of Wantpacturens unfilled orders for their fry Groups, Warret Categories and Supplement Spries

6

								(Millions of dollars)	(12)									
				-	Seasona	lly adjusted	p						With	out stasonal	d adjustment	int 1		
		,	Mon	Monthly			3,	Quarterly						Monthly	hly			
SIC	Industry			17000	10000	***				:		Last a m	months.		1.35	* conths	ta year ag	
		1980 p	1980 I	1980	1980	1979	1979	5,41	15.0	19.8	June 1980P	Nay 1980	Apes 1	March . 488	June .	May. 14,79	April	
							ALL	WANTERCTTELING,	ING. IN RABILE	AND	NONDURABLE GOX	GOODS, PUTAL	4		4			
	All manufacturing industries: Total	281,384	284,033	679,987	706*987	279,710	275,015	7187, 17	7.38,11,8	219,311	280,951	45	728 35.	I.			-60 %	E.
	Total, excluding trans- portation	171,183	174,137	177,753	181,265	176,804	174,193	17 5,050	169,70	158,314	172, 134 1	11 1. 4	., .	ž.	· ·			2
	Durable goods industries,	270,710	272,981	775,098	274,884	267,879	261,742	267, 187	242, 206	7.4.034	.74,169		276, 6/19		- - :	:	54.142	
	Nondurable goods industries, total,	10,674	11,052	11,531	12,023	11,443	5	10,650	10,442	14.364	10,782	11	11.4:	1.044	10, 14	14, 14	÷ ,	
								WARRET CAL	CAFFEOORIES AN	AND SUPPLISME	FNTARA SPRIES	I FS			-		-	
	Market categories: Home goods and apparel	4,237	4,355	4,652	4,711	4,650	*,966		99, :	4,14	4,324		, 6 5 3	- * * * * * * * * * * * * * * * * * * *		- · ·		£
	ucts, except automotive	159,346	160,530	160, 314	154,073	154,999	150,412	348,214		354,836	157,9.7	154,542	16.5, 383	-		6.5	1.5, 1.0	÷
	Construction materials, supplies, and intermediate prods.	20,584	70,626	20,581	20,771	016,0.	21,150	, I 18	, , s.	35, 15*	20,723	24, 3, 6, 5	- 0. c of	20,864	31,.11	18	7	* .
	Other materials and supplies and intermediate products	97,217	98,522	101,082	102, 146	44,1 1	40, 60	The Late of		7	116,11	49, 71,	let, , as !	101,471	, ,		1	***
	Supplementary series: Insaferial durable gouls indus- (Tito) (Spital gouls industries Inclease	3, 369 188, 721 135, 775 52, 946	3,+71 189, 384 136,+82 52,402	1,630 188, 18 137,657 81, 61	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 7 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7				7 1 1 2	3,485 1187,103 135,743 5.,059	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	* * * * * * * * * * * * * * * * * * *		, ± ;	· · · · · · · · · · · · · · · · · · ·	1, : { \$	
				1	4			IND	USTRA DROUGS	PS ANC INI	STRIFS	1		4	-			1
	barable gods industry							_	-		-		-	<u> -</u>	-	1		
25	Stone, clay and glass	2,765	2,852	2,885	3,360	. 161.	1,080	* = 1.*	(2 m · 1	7	. , 4 5 3	7		·L.	÷	. 1**		i.
E E	Primary metals, total	25,232	25,982	27,876	17, 849	24,462	30,176	32, flak . n. 6888	50,043	27,000 17,400	14,982	25,273	. 4,124	4 1 A	÷	*6.	7 5	f. / -1-j
133-0,7	Nonterrous and other primary metal products	8,653	8,411	9,178	166.6	4,334	8,861	7 7 20	8,013	727	8,835	9,-1+	¥.,	•	F , 15.	7 7 7	5,3.4	7,
34	Fabricated metal products	28,169	28,356	28,464	28,737	28,382	27,976	5 20 1	27,600	26,213	28,220	28,356	28,448	1,0'87	22.902	7	518	***
35 351 353	Machinery, except electrical, total, Esques and turbines	56,184	57,432	58,270 16,815	59,994	58,779	57,585 16,785	57,100	50, 34h 10, 880	51,071 16,608	56, 330	57,538 16,616	28,559	16,789	550	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16, 524 16, 524	98 400 18 × 40
354	material handling equip- ment	7,863	8,261 7,568 6,623	8,451 7,628 6,589	7,798	8,423 7,143 7,098	8.041 6.757 7,239	7,943	8,022 5,693 7,026	5,145	7,942 7,523 6,511	8,336 7,561 6,609	8,612 7,636 6,642	8, 922 7, 728 7, 183	5,073 7,249	8,042	5,835	6 1 7 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TABLE 3. --VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUDS, MARKET CATEGORIES AND SUPPLEMENTARY SFRIES -- CANTINGED

(Williams of dollars)

			= ,		32,42	7	K 7	P 74	15,084			£ 1,	K K	lor'cl	100	
		500	March 14.4						15	ж.).	í	2		
		last a months of year agon	Apr 11		1, . 4Bb	14.	40.7	. 5 .	15,004			,	£4 +.	11.14	ž.	1,350
nent 1		t + m in this	1979			5	7 47	-	1., 4.,	1800		* /	1, 21, 1	11 2 td	1.	5,444
nal adrust	hlv	1.3%	June 1-74		3	177	J. 7	175	3 / 2-1	2 3		1 + 1 - 7	1887	11,61	1,008	0,400
Without seasonal adjustment	Monthly		March	•	5	200	5	161	11, 560	10, 44,		10.1	ş	11.299		3,384
Wit		ronths.	Apr. 13 1980		208, 80	- 118	÷ ;	70.				10×, 4	464,84	. 1, han	8	, 30 t
		Last 4 counths	Mas 1980r	par	38,058 30,010	2 x	-	12.0	17,494	10,443		105, 505	86.5 4	11,512		07+1
			June 1980P	INDUSTRY GROUPS AND INDUSTRIES Continued		8,014	183		17,960	10,957		108,617	87,219	111,6111	4, 333	1,171
			1476	1MDUSTRIE	18, 487	7. 7.	14	543	1 ., . 00	7,034		81,005	5+ .1 +3	11,017	5,	2,951
			1979	GROUPS AND	13,843 32,51R	2 2 2	7	164	15,113	5, +72		H8,8%	96119	10, 9, 4	Ì	3,189
	Quarterly		1979	INDUSTRY	53, Rus 3	7.15	1.7	113	15,489	4,154		0.T. 7.7.	1977,84	10,845	5,02%	5,361
ъ	ď		1979		34,858	7.418	407	665	15,803	4 peq 6		028, AL	73, 114h	11.146	5,830	16:15
Seasonally adjusted			IV 1979		35,631	1.5	16.4	545	16,123	16, 4.18		102.936	77,924	11,247	S X 7	3,317
Seasona			March 1980		17,9,71	7 657	410	3.15	17,592	11,014		100,002	81,804	11,237	7	3,514
	,		1980 1980		38,808	700 1	291	330	18,159	11,074		108,87n	86,094	11,502	0,371	3,548
	Monthly	-	Nay.		38,782	8 003	300	348	18,253	10,927		100,846	87,994	11,500	0,397	3.284
			June 1980 ^p		38,804	F 00 8	330	419	18,278	10,806		110,201	88,929	11,479	6,293	3,062
		Industry group		A management of the second of	Electrical machinery, total	Flectrical transmission and distribution equipment and	Rousehold appliances	Badao and TV.	Communication equipment	Electronic components	Transportation equipment.	total	Arcraft, pissiles, and	Shipbuilding and military tank vehicles	Instruments and related products	All other durable goods
		SIC			36	361.2	16.3	365	366	367	37		e	3733	38	5.8

Shipments and mes orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and ness orders are if the road and the period and are adjusted to trading The supplementary series are regroupings of the separate industry categories as follows day or calendar-month variations.

Household durable goods undustries - Household Curature; kitchen articles and pottery, cutlery, handrouis, and hardware, household durable goods undustries - Household Curature; kitchen articles and circles; any site, Limners, Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Notice Products of State of Capital Configuration of Annual State of Capital Cap

Beginning in 1976, the tiscal year for the Federal Government probably affected the awarding of centracts and other frances caracteristic between the behavior is to be the tiscal year for the substitutibility discorrection current data somewhat for the previous calculation in instances were developed by combining the existing and of Lissal year information with data for the previous calculation control current caracteristic and the first year. These were part in the previous calculation control of the first year. These were part in the applied to the caracteristic carac seasonal pattern of the defense industries,

TABLE 4 .. - VALUE OF MANUFACTURERS' INVENTORIES FOR INDISTRY CHOUPS, MARKET CATEGORIES AND SUPPLEMENTARY GRRIDES

(Willions of dollars)

					Seasona	Seasonally adjusted	P						Withe	without seasonal adjusticed	d adiastic	to 1 3		
			Wonthly	sly	-		ממ	Quarterly		1				Monthly	,			
SIC	Industry	944	Max	100	No v	2	E	-	-			hast 4 mo	months	_	Last	4 months	(a war ay v	
		1980P	1980r	1980	0861	6761	1474	- 1676			Pane 1480 F	Max.	Apr.	Var	lane 1914	+ 57,7 T	, , , , , , , , , , , , , , , , , , ,	j -
1							ALL NO	MANITACTUREING, DURABLE	ic, DIEABLE	AND NOND	AND NONDURABLE GOODS, TOTAL	S, Lottel.		1	res	4		
	All manufacturing industries Total	243,714	243,402	242,540	738,522	228,238	721,341	213, 44.	£5	** . ** .	143,589	1 5 1	97, 53	1	213,818	212 123	- , 2	
	Total, excluding trans-	711,089	211,200 [210,419	207,075	198, 34.2	197,703	186,605	180,018	174,183	.11, 578	.1., 685	11, 4%	r : :	1898 181	15-152	5.3 20	:
	Total for industries with unfilled orders	168,759	188,475	167, 391	164,509	158,073	1.12,449	147, '4.'	lal, adli	185, 24	16.9, 7.8		1 1 4 1 5	* **	1 44	ole in		11.5 4.11
	Durable goods industries, total.	160,471	160,607	159,877	151,127	151,689	146,048(141,480	155,266	129,456	161,149	ζ. Ξ	36.2 3.36	1.8, 721	142,041	40.64	1 19 ma	1, 11 (15.1)
	Durable goods with unfilled	149,738	149,641	148,654	146,068	140,633	115,517	131,134	1.5, 419	H F, 369	15 ,265	110 04		7 7 7		18 18	: <:1	
	Nondurable goods industries,	83,243	82,745	H., 663	81, 195	36, 169	15,.43	1. , ab.?	1,485	83.8.8	35,440	, e	£ .	:	-	1,4,4		2 7
	Nondurable goods with unfilled	19,021	18,864	18,737	18,441	17,454	16,41.	10,014	1,404,11	1.	14,485	, to .d	, , , , , , , , , , , , , , , , , , ,	= = = = = = = = = = = = = = = = = = = =		4.		
		7		1	4	1		VARIENT CA	THURSTER V	A PRINCIPALIS ON	AD STEPPHENE AT STRIKE	- - - -	•		-	-		
	Market categories Home goods and apparel	18,229	IN, 415	18,414	18,16,8	- 18. 	*****	= = = = = = = = = = = = = = = = = = = =		- 11.	- 15	- +		+ 	r r	· ·	1.	
	Fquipment and detense pro-	67,892	62,180	66, 205	feet, 718	11.6.1	, , ,		-		58 J. 86	, ,			-			: :
	Automotive equipment,	9,739	10,014	10,478	10,148		7	-		. =	6, 1, 2	* y	;	3		1	:	
	plies, and intermediate	30,136	\$0.00	20,165	10,	14, 54,	1 x 1 14 x	· · · · · · · · · · · · · · · · ·		11.318	, 7,		,		- - - - -	: :	;	
	other materials and supplies and intermediate products	97,535	9. 3 344	4b + 305	45. 3h	34, 111	· · ·	·	1.		41,545	÷.	, t	\$	7	,	;	
	Supple entary series Housebold durable goods andus triess. Capital goods industries	4,227	7 7 7 P	\$ 1.5 5 7.5 7.5	E E	· · · · · · · · · · · · · · · · · · ·	7 7	; <u>;</u> ;		. !	7 5 7 5 7 5	13	; ; ;	· ·		, · ·	· ·	15
	Nonde feasts.	10,572	10,481	10,177	10,035	x 1	· · · · · · · · · · · · · · · · · · ·		3. 5. 5.	1	107,180	\$ 1.5 2.5 2.5 2.5 2.5 3.5 3.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4	2 11.4 2 2.5 2 2.5 2 2.5		T K		1.	i. :
						4	•	1 IN	STRY ofeot	S WE IND	TSTEERS.	¢					•	!
32	Burable goods industries Stone, (lay, and glass products	6,189	6,084 610	6,023 598	* ÷		4 100	, 46.1 5.88	15	, , , , , , , , , , , , , , , , , , ,	. 257.9			15	÷ ÷	₩ 	÷ ;	[[]
33 331 333-6,9	Primary metals, total Blast furnaces, steel mills. Nonicerous and other primary	20,933	20,979	20,789	20, 887	19,803	14,033	19,618	4,853	£ £	70,880	27,448.	10,550	1.5		2 × ×	: . ::	: 1
		7,754	7,812	7,884	7,848	7,563	7, 166	4,915	6,677	6,876	7,808	7,89K	7.75	5 7	. 42 .	~		*
34.1	Pabricated metal prod., total. Metal cans, barrels, and drums	19,405	14,816	19,742	1,502	1,554	18,716	1, 25, 1	12, 31	16,940	19,589	10,156	20, 144	1,669	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	÷ 5	4 m	€ I
35 351 352	Machinery, except electrical, total. Engines and turbines. Farm machinery and equipment	39,032 2,589 3,216	39,079 2,698 3,209	38,624 2,748 3,209	37,609	36,624 2,701 3,108	35, 527 2,630 2,913	34, 053 2, 828 2, 828	32,491	31,013	39,233 2,421 3,257	39,466 2,731 3,286	34,122	34,143	2.530	03, 864 21, 530 21, 433	1 7 5 E	E 17
354	Construction, mining, and material handling equipment Metalworking machinery	8,695	8,669 2,551 3 730	8,489	8,308	8,150 2,314	8,099	2,184	2,083	7,051	2,589	8,669	8,608	8,499	2,188	7,744	2,114	240
See	See footnotes at end of table,		200		1000	200.00	0.77	1 226 %	7	101.	7,141	100.0		1,,,,,				

Table 4. --VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES --CONTINUED

(Millions of dollars)

				Nar 1974		18,124	* 7	1) 1. /		<u> </u>		1.41			7	17.7	3	4:	11,- "	
			(a vear agn)	Apr. 1 +74		13,458	266 5 176 5 176 5		,,		1134 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ ₁ , =	5 9 44 5 10 5 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	20.0	¥1.	1 f % f	÷	7 7	-	
	ent 1		4 nonths	Mav 1979	4	18,937	2, 5 2, 10, 2 2, 10, 2 2, 10, 2 2, 5, 3	(1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1. 1014	, *	1 7 5 C	5 5	2.5.2	5	7	121	÷ ±	<u> </u>	134	
	Without seasonal adjustment	Monthly	Last	June 1979	7	19,041	2000 2000 2000 2000 2000 2000 2000 200	5,344		i -	2. 4. 4. 5. 4. 5. 4. 5. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	1,1,1	8 1 2 2 3 1 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3	£ 7	1.7.1		15,60 .	- 3ha		
	hout seaso	Mon		Mar. 1980		21,724	3, 490 2, 183 1, 014 7, 794 3, 263	81,704 7,898	14 14	Ť.	8,264 5,636 7,146	12, 98	20, 181 1, 86.2 3, 919 1,821	3,653	b. 30%	1.56	3.5.5	7 of 7	7,44	
	W14		months	Apr. 1980		22,279	4,017 2,327 1,097 7,911 3,327	32,221	19,539	2,238	8, 384 5, 733 2, 192	12. Jan	19, 909 1, 849 3,878 1,711	3,544	6,253	2, 5n4 2,5n4 2,007 2,489	19,243	5,674	8, 315	
			Last 4	May 1980r		22,467	4,064 2,253 1,153 8,019 3,363	32,21h 7,635	19,953	1,290	5,839	12,265	19,459 1,827 3,824 1,568	3,428	6,309	7,653 2,054 2,055	19,233	5,765	8, 325	
	1			June 1980P	ES	22,297	4,014 2,101 1,130 8,035 3,441	32,261	:0,328	2,375	8,547 5,95.	12,100	19,187 1,800 3,747 1,732 10,151	3,347	6,203	7,741 2,705 2,069 2,967	18,997	6,341	8,629	
			1	1978	D INDUSTRIES	17,082	3,262 1,965 1,029 5,412 2,518	7,798	12,604	1,750	6, 510 4, 269 1, 763	10,11	17,298	3,602	5, NB4	5,889 2,004 1,717	15,439	4,589	5,359	
191			-	1979	GROUPS AND	18,048	3,366 2,021 1,012 5,830 2,712	25,734 8,769	13,175	1,7,9	7,004	11,267	1,657 3,484 1,544	3,599	1, 14	7,054 2,048 1,759 2,747	15,627	4,537	5,143	
s or noris		Quarterly	:	1979	INDUSTRY	18,689	3,514 1,955 989 0,134	27,337	14,653	1,714	7,317	11,594	18,957 1,719 3,622 1,571	3,668	5,657	6,315 2,087 1,778 2,451	15,916	4,687	5,402	
(MILLION)	p	3	111	1979		19,462	3,637 1,958 970 6,588	28,638	15,549	2,034	7,471 5,021 1,941	11,766	19,780 1,757 3,672 1,718	3,762	5,695	6,422 2,143 1,834 2,445	16,492	4,975	6,343	
	Seasonally adjusted		2	6261		20,598	3,770 2,116 1,039 7,095	29,916	17,417	2,165	7,765 5,291 1,986	11,436	20, 397 1, 927 3, 845 1, 913	3,503	5,844	6, 795 2, 319 1, 909 2, 568	16,982	5,246	6,581	
	Seasona		r oN	1980		21,620	3,868 2,161 1,053 7,741 3,240	31,447	19,049	2,130	8,237 5,597 2,155	12,181	20,431 1,851 3,830 1,627	3,506	960 * 9	7,296 2,435 1,980 2,881	18,677	6,055	8,062	
		ıly	- u	1980		21,999	3,965 2,231 1,105 7,889	32,121 8,019	19,380	2,240	8,296 5,687 2,149	12,228	20,292 1,784 3,817 1,634	3,475	6,143	7,416 2,533 1,989 2,894	19,274	6,316	8,388	
		Monthly	May	1980r		21,924	3,996 2,092 1,101 7,916 3,336	32,202	19,797	2,279	8,351 5,759 2,131	12,167	20,102 1,766 3,809 1,585	3,505	6,149	7,479 2,604 7,026 2,849	19,451	6,361	8,384	
			June	1980P		21,858	3,977 1,978 1,082 8,001 3,404	32,625	20,435	2, 362	8,414 5,887 7,077	12,015	20,149 1,780 3,843 1,792	3,505	6,107	7,612 2,670 2,027 2,915	19,343	6,484	8,837	
			Industry			Electrical machinery, total	and distribution equipment and industrial apparetus. Household appliances. Radio and TV. Communication equipment. Electronic components.	Transportation equipment, total. Motor vehicles and parts	Aircraft, missiles, and parts	tank vehicles	Scientific and engineering. Photographic goods	All other durable goods	Nondurable goods industries. Food and Kindred products, forth Mest products Beverages. Fats and oils. All other fonds	ž	Textile mill products	Paper and allied products, total. Pulp, paper, etc. Raperboard containers. All other paper containers.	Chemicals and allied products, total.	recept pigments Drugs, soap, and toiletries.	Petroleum and coal products	Bubbon and plactice products
			SIC			36	363 365 366 367	37	372,6	3795	381-4	25 25	20 201 208 207 203-6.9	21	2.2	26 261-3 265 264			29	

Prelationsy. Physical Process. Physical Process are the totals for the period and are adjusted for trading-day and calendar-month variations, untilled orders are no the totals for the period and are adjusted for trading-day and calendar-month variations, untilled orders are no the totals for the period and are adjusted for trading-day and calendar-month variations, untilled orders are the totals for the period and are adjusted for trading-day and calendar-month variations, untilled orders are the totals for the period and are adjusted for trading-day and calendar-month variations. trading-day or calendar-mouth variations.

Household durable goods industries - Household furniture; kitchen articles and pottery, tentlery, handtools, and hardware; household durable goods industries - Household furniture; kitchen articles and pottery, cutlery, handtools, and hardware; household durable goods industries - Household furniture; kitchen articles and pottery, cutlery, handtools, and hardware; household durable goods in the control of th Gopital productives—the captral goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products cold series) categories, which is a machinery and equipment and such the bobbs, description industries of this publishers, radio and it among the production of the publisher comparable to the production of the publisher comparable to those publisher and arrest parts and variable and publisher comparable to those publisher and arrest parts and variable and publisher and arrest parts and variable and publisher

Table 5 .- - VALUE OF MANUFACTURERS' DATEMBLES, BY STACE OF PARKICATION, IN .. . OUR

(Based on seasonally adjusted data)

	Mo	onth-to-mont	h	Aver	age monthly	rates of ch	ange	Average,	1975-1979
					3 months		12 months		
Item and industry group	May- June 1980	Apr Nay 1980	Mar Apr. 1980	MarJun. 1980	Dec1979 Mar. 1980	SeptDec. 1979	June 1979 June 1980	Average rise	Average decline
Shipments:									
All manufacturing industries	-0.5	-1.4	-4.3	-2.1	+0.9	+0.6	+0.1	+1.6	-1.2
Durable goods industries	-0.8	-3.8	-4.9	-3.2	+0.9	0.0	-0.4	+1.9	-1.9
Nondurable goods industries	-0.2	+1.0	-3.7	-1.0	+0.9	+1.3	+0.7	+1.6	-0.7
Inventories:				,					
All manufacturing industries	+0.1	+0.4	+1.7	+0.7	+1.5	+1.0	+1.1	+0.7	-0.3
New orders:									
All manufacturing industries	-0.5	~3.1	-5.8	-3.1	+0.7	+0.4	-0.2	+1.9	-1.2
Durable goods industries	-1.0	-7.0	-6.6	-4.9	+0.2	-0.2	-1.0	+2.8	-2.0
Nondurable goods industries	-0.0	+1.0	-4.9	-1.3	+1.2	+1.1	+0.7	+1.5	-0.7
Unfilled orders:									
Durable goods industries	-0.8	-0.8	+0.1	-0.5	+0.9	+2.3	+0.4	+1.2	-0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(B8S	ed on seaso	nally adjus	ted data)					
Industry group	Inv	entoriess	hipments ra	tio	Unfill	ed orders (months'		atio¹
	June 1980	May 1980	April 1980	March 1980	June 1980	May 1980	April 1980	March 1980
All manufacturing industries	1.73	1.72	1.69	1.59	3.82	3.83	3.75	3.62
Durable goods industries	2.33	2.31	2.21	2.07	4.61	4,61	4.50	4.30
Stone, clay, and glass products	1,62	1.60	1.54	1.54	0.81	0.83	0.81	0.86
Primary metals	2.13	2.04	1.83	1.67	2,56	2.53	2.46	2.42
Fabricated metals	2.31	2.35	2.16	2.09	3.68	3.71	3.42	3.38
Machinery, except electrical	2.84	2.89	2.89	2.68	4.41	4.61	4.69	4.59
Electrical machinery	2.21	2.18	2.23	2.09	3.93	3.86	3.93	3.67
Transportation equipment	2.53	2.42	2.25	2.10	14.16	13.71	13.05	12.32
Instruments and related products	2.51	2.50	2.54	2.26	1.88	1.92	1.95	1.77
Nondurable goods industries	1.16	1.15	1.16	1.10	0.72	0.74	0.76	0.79
Food and kindred products	0.99	1.00	1.06	1.00	(X)	(X)	(X)	(X)
Tobacco products	3.74	3.10	2.89	3.37	(X)	(X)	(X)	(X)
Textile mill products	1,55	1.54	1.47	1.46	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.34	1.32	1.27	1.24	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.57	1.53	1.48	1.36	(X)	(X)	(X)	(X)
Petroleum and coal products	0,59	0.57	0.59	0.54	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c	1.48	1.51	1.45	1.36	(X)	(X)	(X)	(X)

P_{Preliminary} r Revised. (X) Not applicable. (NA) Not available.

Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers: metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Shipments, Inventories, and Orders

JULY 1980

U.S. Department of Commerce BUREAU OF THE CENSUS

M3-1 (80)-7 FOR WIRE TRANSMISSION 2:30 P.M. Tuesday, September 2, 1980

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in July increased \$7.8 billion or 5.7 percent to \$146.4 billion the Department of Commerce, Bureau of the Census reported today. This is the first monthly increase in orders since January and the largest one month percentage increase since the 6.8 percent rise in December 1970. Although the July increase in orders was substantial, the volume of orders for the month was below the January high of \$155.6 billion.

New orders reported by durable goods manufacturers increased in July \$6.8 billion or 10.3 percent to \$73.3 billion, revised upward from the 8.4 percent reported earlier. All major industry categories except electrical machinery showed increases. In the transportation equipment category, new orders were up \$3.5 billion or 28 percent to \$16.2 billion. About half of the increase in transportation orders was attributed to shipments¹ for the motor vehicle industry. For the motor vehicle assembly portion of that industry, new orders are considered equal to shipments made during the month. The aircraft industry reported orders for the month of \$5.7 billion, a 17.9 percent increase over June.

Within the primary metals category, steel producers reported their second consecutive large increase in orders. After sharp declines in March of 12.4 percent, April of 20.1 percent and May of 18.6 percent, steel orders in June rose 16.1 percent and July 22.5 percent. The value of steel orders for July was \$4.8 billion as compared to the high of \$7.3 billion recorded in January 1979. Nonferrous metals producers also had a large increase in orders. After 5 months of declines orders were up \$0.9 billion or 21.6 percent to \$5.2 billion.

In the capital goods industries new orders for nondefense capital goods increased \$0.9 billion or 4.4 percent to \$20.8 billion. Although the specific nondefense categories showed a mixed pattern of changes, the largest increases occurred in the

transportation equipment components of the series. New orders for defense capital goods increased \$0.9 billion or 25 percent to \$4.4 billion following a 35 percent decline in June. Prior to June, new orders for defense capital goods had been increasing since January, peaking at \$5.3 billion in May.

New orders in the nondurable goods industries increased \$1.0 billion or 1.4 percent to \$73.1 billion. All major categories showed increases except the apparel and petroleum industries, both of which reflected shipments declines.

The value of shipments of manufactured products increased in July \$3.9 billion or 2.7 percent to \$145.4 billion, following 4 consecutive monthly declines. Within the durable goods industries, shipments of transportation equipment were up \$1.7 billion or 13.5 percent to \$14.7 billion. Over three fourths of the increase was accounted for by the motor vehicle industry which is now into its annual model changeover period.\(^1\) The seasonally adjusted increase of 20 percent or \$1.5 billion was based on June shipments of \$7.2 billion, the lowest one month volume of deliveries since the \$7.2 billion in October 1976. The value of shipments in June 1979 going into the model changeover period was \$10.5 billion. Excluding the motor vehicle industry, shipments for transportation equipment increased 5.0 percent.

An increase in shipments of \$0.5 billion by the primary metals industries was mostly attributable to nonferrous producers who reported an increase of \$0.4 billion or 8.7 percent to \$5.0 billion. The largest decrease in durable goods shipments occurred in the nonelectrical machinery category which declined \$0.3 billion or 2.3 percent to \$13.5 billion. The average value of monthly shipments for the first 6 months of this year for this category was \$13.8 billion.

The value of shipments by nondurable goods industries increased \$1.0 billion or 1.3 percent to \$73.5 billion, the largest increase since a 2.8 percent rate in January. Most of the major nondurable goods industries had more significant increases but a near billion dollar decline in deliveries by petroleum refiners offset much of the other increases. Excluding the petroleum industry nondurable goods shipments rose 3.3 percent.

The unfilled orders levels of manufacturers increased \$1.0 billion or 0.4 percent to \$282.0 billion, following 3 consecutive monthly declines. Increases of \$1.5 billion or 1.3 percent in the transportation equipment category and \$0.5 billion or 1.9 percent in primary metals were partially offset by declines in

¹Motor vehicle assembly plants close down for retooling, generally during July, August, and September, for the forthcoming model year. Year-to-year variations in both the timing and duration of the model changeover period are sufficiently great that the normal seasonal adjustment procedures do not adequately identify the seasonality during the period and may introduce substantial erratic movement. To compensate for this, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. These seasonally adjusted data are recompiled each month as additional information is received. The seasonally unadjusted automotive data are not subject to any special estimating procedure.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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both the electrical and nonelectrical machinery orders backlogs. The orders backlog for the nonelectrical category declined \$0.2 billion or 0.3 percent and for the electrical category \$0.3 billion or 0.7 percent.

The book value of manufacturers' inventories in July increased \$0.9 billion or 0.4 percent to \$244.5 billion. After increases during the first four months of 1979 averaging more than 1.5 percent per month, the value of inventories has gone up less than 0.5 percent per month since April. For the durable goods industries the pattern of change was mixed. For the nondurable goods category most industries reported declines in inventories. Significant increases in the petroleum industry

of \$0.3 billion or 3.7 percent and the foods industry of \$0.5 billion or 2.3 percent more than offset those declines.

The inventory to shipments ratio for July dropped to 1.68, the first decline in the ratio since January.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for August is scheduled for release on September 23, 1980, and the full report is scheduled for release on October 1, 1980.

Table 1. -- VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

							(Millions	ns of dollars)	rs)									
				Seasonally	lly adjusted							Without	out seasonal	al adjustment	ent 1			
			Mon	Monthly			Quarterly					Monthly	1 y				Year-to-date	date
SIC	Industry									Last 4 n	months		Last	- months ((a year ago)			
		July 1980P	June 1980r	May 1980	April 1980	1180	1980	1979	July 1980P	June 1980r	May 1980	April 1980	July 1979	June 1979	May 1979	April 1979	1980	1979
							ALL A	MANUFACTURING,	NG, DURABLE	AND	NONDURABLE GOODS,	S, TOTAL						
	All manufacturing industries: Total	145,429	141,573	141,515	143,596	426,684	455,058	436,162	134,362	149,249	143,186	146,692	131,605	147,053	144,304	137,558 1	1,023,899	969,271
	Total, excluding trans-	130,723	128,615		129,320	386,151	408,995	390,883	122,096	134,940	129,264	131,733	118,022	129,967	126,114	120,468	921,948	862,648
	Total for industries with un-	79,437	73,710	74,114	76,381	224,205	240,176	228,465	68,907	78,672	75,166	77,853	897,89	78,699	16,490	72,704	537,827	512,892
	Durable goods industries, total.	71,940	950*69	69,443	72,207	210,706	233,032	223,486	64,724	74,880	71,296	74,464	67,066	78,976	77,997	73,560	515,564	517,750
	Durable goods with unfilled orders	60,128	58,739	59,178	61,187	179,104	194,066	184,551	54,504	63,354	60,310	62,629	54,927	64,208	62,284	58,909	432,546	416,704
	Nondurable goods industries,	73,489	72,517	72,072	71,389	215,978	222,026	212,675	69,638	74,369	71,890	72,228	666,539	68,077	66,307	63,998	508,335	451,521
	Nondurable goods with unfilled orders	19,309	14,971	14,936	15,194	45,101	46,110	43,914	14,403	15,318	14,856	15,224	13,541	16,491	14,206	13,795	105,281	96,188
								MARKET C	CATEGORIES	AND SUPPLEMENTAL	MENTAL SERI	ES						
	Market categories: Home goods and apparel Consumer staples.	11,038	10,724	10,566	10,671	31,961	34,337	32,768	9,998	11,018	10,101	10,387	9,590	10,799	9,906	9,635	74,481	08,826 lo8,166
	Equipment and defense products, except automotive	21,438	21,510	21,681	21,107	64,298	64,900	61,635	19,572	23,377	21,874	21,570	18,065	20,700	19,618	19,526	150,722	134,589
	Construction materials, supplies, and intermediate products	11,786	11,110	10,793	11,643	33,546	38,558	38,428	11,607	12,281	11,352	12,006	12,364	13,605	13,079	12,314	82,549	84,265
	Other materials and supplies and intermediate products	63,414	62,754	63,566	65,321	191,641	205,583	191,136	58,895	65,657	64,610	67,241	57,237	63,631	62,633	58,702	462,930	418,27*
	Supplementary series: * **Rousehold durable goods industries** Captal goods industries** **Nondefense** **Defense** **Page 1.00	4,878 24,041 20,639 3,402	4,588 24,063 20,628 3,435	4,616 24,202 20,762 3,440	4,724 23,911 20,625 3,286	13,928 72,176 62,015 10,161	15,211 73,344 63,626 9,718	14,479 69,422 60,048 9,375	4,155 21,857 18,696 3,161	4,781 26,005 22,422 3,583	4,513 24,224 20,742 3,482	4,620 24,256 20,897 3,359	4,C38 20,232 17,014 2,618	4,850 23,540 20,413 3,127	4,488 21,988 19,124 2,864	4,447 21,913 18,940 2,973	32,673 169,343 145,271 23,072	30,895 152,521 132,520 20,0.1
								INE	INDUSTRY GROUPS	4ND	INDUSTRIES							
32	Durable goods industries: Stone, clay, and glass products	4,100	3,798	3,808	3,944	11,550	12,649	12,501	3,990	4, 208	3,946	4,010	4,016	4,471	4,263	3,924	2, 26	27,19+
331		10,271	9,791	10,268	11,333	31,392	38,196	35,906	9,426	10,674	10,985	12,133	10,955	12,599	13,055	11,024	81,725	82,758 41,126
333-9	Nonterrous and other primary metals	696,4	4,570	4,635	69847	14,074	17,155	15,178	4,472	4,913	4,955	5,302	4,381	5,192	5,173	4,841	35,648	33,431
341	Fabricated metal prod., total. Metal cans, barrels, and	8,605	8,406	8,441	9,134	25,981	28,700	27,709	8,033	9,095	8,719	9,334	8,477	9,787	9,620	808	5,771	5,903
35	Machinery, except electrical,					2	1	4		3	3							
351	Engines and turbines	13,511 1,204 1,060	13,822 1,140 1,043	13,538	13,374 992 946	40,734 3,266 3,076	42,282 3,343 3,200	3,272	12,283 985 867	14,999 1,232 1,136	13,714 1,126 1,168	13,708	12,039 RR3 1,038	14,043 1,202 1,166	15,251	13,176	7,926	7,765
354 356	Construction, mining, and material handling equipment Netalworking machinery General industrial machinery	2,545 781 1,146	2,504 900 1,175	2,565 869 1,129	2,607 855 1,225	7,676 2,624 3,529	8,499 2,664 3,630	7,891 2,537 3,504	2,454	2,664 1,009 1,282	2,642 874 1,154	2,755 841 1,244	2,569	2,795 875 1,148	2,732 768 1,087	2,777	19,070 6,131 8,315	18,674 5,339 7,542
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	products, total	1,4628	3, 36** 1, 36 *	3, 3% 1, 48% 1,2%	1,32	4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		3 7 3	I = 1	\$ 3.7.7 \$ 2.7.7	÷		Tr the per tr Tr	137	7	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	4,12,4	
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	February products	1,200	1, 112	3,992	1,363	3, 344,	12,231	3,143	1,1-1	1, 65	7 2 7 2 7 2 7 2 7 2	1,17	3,414	4 2 3 7	3,474	452	1 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2, 1, 13
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	Chemicals and allied products, total	12,613	12,502	12,701	13,031.	18, 2.14	41,144	19,813	11,701	13,201	13,150	13,491	11,818	13,175	12,848	12,476	43,68h	474,474
	overpt pignents	3,807	4,151	3,714	3,486	13,154	14,453	13,771	3,940	3, 895	4,503	5,022	4,166 3,309	4,51.2	3,024	4,35h 3,103	32,929	24,922
	Petroleum and coal praducts	13,846	14,760	14,751	14,213	43,724	43,103	18,431	13,484	14,829	14,485	14,116	11,084	10,409	10,388	6,800	100,392	71,152
	D.C. C	1,702	3,4001	3,311	3,514	10,236	11,541	11,009	3, 364	3,403	3,404	3,2495	1,415	3,423	3,893	3,812	25,552	2n, 354
	All other nonjurable years industries	10,805	10,538	10,423	10, 307	11,265	31,814	30,613	10,270	10,474	9,884	10,102	9,307	9,004,6	012,6	н, 902	71,423	63,469
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unfilled orders and Preclamary. Reviewd. "Reviewd. "State the totals for the period and are adjusted for trading was and calendar-mouth variations. trading-day or calendar-menth variations.
The supplementary varies are regroupings of the separate industry categories as follows:

and miscellane.us Howsehold burshie goods inflatives - Household furniture; Aitchen articles and pottery, cuttery, handtools, and hardware; household appliances; ratio and TV; ophthalate goods, watchen, and clock-

personal goods, captual goods industries series is comparable to the previous Producers (optical goods and the Defense Products (old series) categories.

Wantel goods industries series is comparable to the previous Producers (excluding household appliances, radio and TV and electronic components), and the monthless products—American's or statistic and exclusive declination community, in the manufacture of the previous of supparable comparable of the previous

Table 2, -- VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

Millions of dollars)

							Millions	Millions of dollars)	(1)									
				Seaso	Seasonally adjusted	ted						With	out season	Without seasonal adjustment	ent,			
			Mon	Monthly			Quarterly					Monthly	1y		1		lear-to-date	ate
SIC	Industry	Tuda	Inne	Мах	Ann 13	E				Last 4 m	months		Last	4 months a year ago	a year ago			1
		1980 ^p	1980r	1980	1980	1980	1980	1979	July 1980	June 1980	May 1980	April 1980	July 1979	June 1979	May 1979	April 1979	1980	1979
							ALL	MANUFACTURING,	NG, DURABLE AND	E AND NOND	NONDURABLE GOO	GOODS, TOTAL						
	All manufacturing industries: Total	146,419	138,582	138,920	143,313	420,815	462,256	442,838	135,646	145,566	138,924	146,490	132,360	149,483	144,733	142,739 1	1,028,656	1,000,83~
	Total, excluding trans-	130,252	125,910	124,600	125,803	376,313	413,458	393,493	121,515	131,799	125,179	128,973	117,401	130,760	125,585	671,421	920,262	867,922
	unfilled orders,	80,427	70,719	71,519	16,098	218,336	247,374	235,142	70,191	74,989	70,904	77,651	69,223	81,129	76,919	77,885	452,584	544,455
	Durable goods industries,	73,273	969,434	67,328	72,416	206,198	240,034	229,624	66,290	71,700	67,663	74,452	67,926	81,410	78,568	78,341	521,209	548,820
	orders,	61,461	56,137	57,063	61,396	174,596	201,068	190,688	56,070	60,174	56,677	62,617	55,787	66,642	62,855	63,690	438,191	447,774
	Nondurable goods industries,	73,146	72,128	71,592	70,897	214,617	222,222	213,214	69,356	73,866	71,261	72,038	964,434	68,073	56,165	968,998	507,447	+52,614
	orders,	18,966	14,582	14,456	14,702	43,740	46,306	66,453	14,121	14,815	14,227	15,034	13,430	14,487	14,064	14,195	104,393	96,581
	orders,	54,180	57,546	57,136	56,195	170,877	175,916	168,761	55,235	150,65	57,034	57,004	866'09	53,586	52,101	50,203	403,054	355,333
								MARKET CATEGORIES		AND SUPPLEMENTARY SERIES	NTARY SER	TES .			1	F		1
	Market categories: Home goods and apparel Consumer staples	10,959	10,613	10,283	10,570	31,466	34,372	32,463	10,126	10,932	9,928	10,466 24,982	9,712	11,128	9,734	9,925	74,643	70,958
	ucts, except automotive	21,128	20,802	22,307	23,186	66,295	69,510	66,721	20,076	22,482	21,120	23,590	19,256	21,424	20,757	20,672	156,178	148,083
	plies, and intermediate prods.	11,651	10,906	10,838	11,452	33,196	38,419	38,208	11,432	12,015	11,428	11,952	12,342	13,405	13,042	12,810	82,288	80,330
	and intermediate products	64,908	061,190	61,009	64,052	186,251	208,757	194,281	59,694	63,669	61,726	998,866	56,808	65,132	62,530	62,019	464,412	434,275
	Supplementary series: 7 Household durable goods indus-	4,775	4,503	4,417	4,713	13,633	15,414	14,031	4,250	4,726	4,414	4,744	4,144	5,105	4,325	4,088	33,074	31,879
	Captal goods industries Nondefense.	25,278 20,827 4,451	23,500 19,954 3,546	24,868 19,589 5,279	27,110 22,162 4,948	75,478 61,705 13,773	79,556 67,929 11,627	75,978 65,112 10,867	23,782 18,785 4,997	25,167 21,565 3,652	23,383 18,865 4,518	27,086 22,406 4,680	22,188 19,420 2,768	25,665 23,062 2,603	23,721 20,726 2,995	23,881 20,920 2,961	179,075	172,518
								IN	INDUSTRY GROUPS AND	IPS AND IN	INDUSTRIES			1	1			
32	Durable goods industry: Stone, clay and glass	4,110	3,647	3,775	3,762	11,184	12,799	12,337	3,999	4,031	3,873	3,912	4,124	4,387	F 642.4	4,-33	27,767	27,554
331	Blast furnaces, steel mills.	10,744	3,881	8,373	9,680	27,000	37,760	35,593	9,221	9,311	9,126	10,299	9,549	5,650	5,739	12,431	78,688	88,01
	metal products	5,169	4,250	4,368	679'7	13,267	17,218	15,651	4,387	0250	4,587	4,951	4,132	5,320	5,071	4, 40s	36,271	34,740
34	Fabricated metal products	8,551	8,076	8,333	8,862	25,271	29,053	28,114	7,965	8,820	8,626	9,131	8,592	9,765	9,725	3,195	62,835	45,353
35	Machinery, except electrical, total. Engines and turbines.	13,325	13,085	12,701	11,651	37,437 2,911	3,496	41,834	12,126	14,314	12,692	12,261	12,252	14,691	13,273	13,449	45,749	95,293
354 356	material handling and material handling equipment Metalworking machinery General industrial machinery	2,520 840	2,210 918	2,375	2,181 684 632	6,766	3,319	8,272	2,429	2,376	2,366	2,446	2,604	2,828	2,587	2,402	18,738 6,633	18,914
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		1.00	* * * * * * * * * * * * * * * * * * *	1		1	- <u>C</u>		- 3	i i	4 <u>\$</u>				737	land land	1 15	*
								1	2	1 1								
7.4	Hectica, without, total	9,767	2,961	16,95.	1 . 31		11.03		1,154	2	, , ,	ž. ?	** * *	, , , , , , , , , , , , , , , , , , ,	. 3.1	.1	73,211	1,4,1
11	destribute o properti nel nelestri d'apprintes	1,700		11.1	n : ;		1 · · · · · · · · · · · · · · · · · · ·		;' = ; ;;;;		(-)	37	-	111		1,3,1		1
49	Comment of the first of the fir	1,016	5,1.5	3,31.	1,878				1,441	= ;	M.		1	1::	1	, ,	25, 506	18, 44
	total.	16,167	1. ,,	14,3,		:	\$;				.* ====================================	- H	1	14, 7, 3	7	- · ·	108, 44	13.,41.
	_	1521		1,100	: :	;	: :	13	1	, ;	! '	1,15.	ş :	į, ,	, 00,		58, 11.3	
f	Instruments and relite s	188	÷	3, 104	;	1	;		,1 34		-	:,17	Ē,	5, 4	19,	4.5	18,81	
110	Association arrivals are distributed to the state of the	7,761	2 . 25 . 3	,,,,,		2	·	0, **.	£ .	1		•	**	* **	**	D	50,10	5.,1.
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THE COURT OF THE PROPERTY OF A DECEMBER OF THE SECTION OF THE SECT Training.

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TABLE 3, -- VALLE OF MANIFACTIBERS (NEILLED URDERS FOR INDICITARY GROUPS, WARKET CATEGORIES AND SUPPLEMENT SERIES

							(Willims	is of dillars)	ars)									
					Seasonally	lly adjusted	TI						Arth	out seas in	mal adiistmo	cnt1		
			Mon	Monthly			2	Quarter ly						Mon	Wonthly			
SIC	Industry								;			Last - n	r an t hs		Lavt	t + Thy	a vear ag	-
		7013 1980P	June 1980 ^r	May 1980	Apr. 1980	1980	1979	1979	11 67 61	1979	July 1980F	June 1980 ^r	Mas 1980	Apr.,	Volv.	fune 19 4	78.0 . 979.	Mrs.
					1		ALL	MANUFACTUR	ING, DURABI	F AND	NOWDURABLE COURS	NOS TOTAL	1			*		
	All manufacturing industries: Total	282,032	281. 044	284, 333	280, 029	280,907	279,7,0	273, 333	207.837	258,148	281,894	280, c16	284, 305	285, ot 4	750,847	F		2000
	Total, excluding trans-	170,960	171,433	174,137	177, 753	181, 255	176,804	174 193	-73,089	169,765	172,007	172 545	175,741	174,824	173 ×7+	174, 3603	.3, 10:	181 %
	Durable goods industries,	271, 714	270,383	272,981	275,098	274,884	267,879	261, 742	257, 187	247,716	271,408	269,847	273, 32	276,560	258,040	. 7.179	230,740	15, 13.
	Nondurable goods industries,	10,318	10,651	11,052	11.531	12,023	11.831	11, 291	10,950	(L) 448.	11, .86	1 , 76%	11.27.	11,904	10, 674	19,762	74	ant of
							1	MARKET CAT	CATEGORIES 40	AND SUPPLIENT	NIAKA SIRI	1188		1		,		1
	Market categornes. H sme goods and apparel. Consumer staples.	4, 133	4,247	4,355	4,652	4,717	4,630	4, 966	4,927	4, 766	499,79	4, 336	4,425	4,633	5,182	5,022	4, 6.79	î œ
	nots, except automotive	\$ 159,156	159,412	164,530	160,314	159,073	154,999	150,912	148,249	144,254	158, 524	666 15	109 342	16 1, 583	, 4.8. Ib	.47,100	141.38	160. 41
	Construction materials, sup- plies, and intermediate prods.	20,285	20,423	24.626	195.05	20,771	21,4,6	2130	2.,018	20,871	20.386	24, 360	29, 82h	2 , 751	21, 142	061 ***	21, 3, 4	*
	other materials and supplies and intermediate products	48,457	96,962	98,522	101,082	102 345	44,171	36, 425	93,042	88,215	98,518	47,721	99 713	102,597	94, L34	94, 589	43 83	**3, .**
	Supplementary series; flustened durable goods indus- flustened durable goods indus- frages (Apital Goods industries) Nondefense (Metense)	3,282 190,059 135,939	3,387 188 821 135,810 53,011	3,471 189,384 135,48? 52,902	3, 670 188, 718 137, 527 16, 16	3,680 185,519 135,118 49,401	3,475 179 31. 131,819	3,923 172,754 125,754 46,007	3, 957 157, 208 12. 70 40, 138	3,404	3,596 189,433 ,30,171 >3,962	3, 102, 187, 307, 185, 063	3,558 187,999 13,343 52,756	3.5 8 188,837 137,8,4	12,24	21,536	3,53,5	fish f
								140	INDISTRY GROI	PS AND INDI	INDES TRIES				1	- -		
	Durable goods industry											1						
	Stone, clay and glass	2,710	2,702	2,852	2,885	3,006	2. +17	3, 08.1	3,003	2,821	2,776	. 788	9	P 4	3, .40	3, 78		3 ,
33	Primary etals total	21,013	25,139	25 982	27,876	29,528	19.46. 18.007	30,276	31,0'8	31, 941	25, 701	15,407	27, 211	F. 11.3	31, 23×	32 840	10 m	5.5 Age 1.1
- 22-6	setal products	8, 792	8,591	8. 411	9,178	9 397	9,334	8 861	8,445	8. 77	8, 586	4,771	4,214	9,58,	8.373	2.00	,	1
	Fabilicated metal products	27,970	28, 927	28,356	28,464	28, 737	28, 382	27.970	27,839	27,600	28.014	28 780	28, 300	α 4 4 4	7.85 x x	÷ ;	3	x, x,
35	Machinery, except electrical, rotal, respect and turbines, construction, enting, and	16, 204	50.09	(7.432 16,738	18,270	23,994	18, 779	10,780	57,105 15,869	15, 38	77 7 7 9 1 4 6 4	25, 785.	07,538 10,615	16, 73	15,049	45	4 2	1,7
354	material handling equip- near metalworking mechinery Gentral industrial machinery	7,943	7,968	8,261 7,568 9,623	8,451 7,528 6,589	8.877 7.798 7.183	8.473 7.143 7.098	8, 341 6, 7×7 7, 239	7,993	8, 02.2 5, 093 7, 02%	8,023 7,615 0,407	8, 248 7, 541	8.33b 7.5h1 5.009	7,035	2,73	A, 73 1, 374 7, 244	\$ 0 Z	8,187 1,852 7 PM
See	See Postnotes at end of table.																	

DBBIGGO, --VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS. MARKET CATEGORIES AND SUPPLEMENTARY SEPIES --CONTINUED

					Seasons	Seasonally adjusted	pet						MIES	mut season	Without seasonal adlustrent	. tues		
	1. 1		Monthly	via			,	Quarterly	-					Wonthan	V. 6	1		1
SIC	Industry group	July	June	May	Apr.	-	N	213	1.1	-		Last	sutur +		last	t + moths	a vear ag	
		1980P	1980	. 980	086	, 48¢	52.51	62 61	1979	13.9	7.17v 9.89.	Jone John	Vay .98	Apr., 1984	July 1979	June 1979	Was.	Apr 976
								INDUSTRA	GROUPS AND	INDISTRIE	INDISTRIES Continued	p.d					1	i
101 2	Electrical machinery, total Electrical transmission and distribution equipment and	38, 569	38,830	38, 782	38,868	37, 344	31,63.	34,858	33.84	32,518	38.726	38 28	34.71	38.802	33.968	33, 725	33,276	3.5
	Household applanes	8, 013	333	8,063	7,999	33.7	364	20 ** 3 = ± 4 = f	7.67	44.3	363	338	315	8.118	7, 228	467	7,157	7, 15
106	(***munication equipment	18, 360	18 350	18,2,3	11, 124	3, 42	15,13,8	S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 4 5	15,1113	8, 29 84	18, 43	316 .7,999 10,993	18, 14,	17.3.4.7.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	5, 221	317	33.5
37.56	Transportation equipment total. Aircraft missiles, and	111.072	113 80	4.896	1.18, × 75	1.0,642	5 7 3	X X	7 , 7 , 7	38.38	. 88	8, 21	198,363	90.	20 20 7	7 7 7	4,834	40,04
1731	Shipbuilding and williary	40, 307	88,827	×17,494	865. 94	81.8.4	17, 424	** · **	20.	63, 44	88, 94b	87,127	36 36	85, 800	59.243	0,000	65,831	04, 753
7.45	sank vehiteles	11,28	11, 235	,1,500	11, 302	11,237	11.297	11.146	10,845	76'67	.1.428	11, 332	:1,512	11,646;	10,948 :	11,010	43.195	.162
	Instr., ents and related products	6,256	6, 295	1,347	6, 371	7 .0	. 48.	. 83	5. 52×), 40	6,37,	9.34	6 327	F7 E Q	5,730	5, 508	,	497
	Wil other dutable guids	3,015	3,084	3.284	3, ,48	3,514,	3,317	6	36	3.189	3 335			3	. 09	1		-

becomes and now orders are the totals for the period and are antusted for trading-day and calendar-mosts variet ins infiling writers and investories are if the end if the period and are not adversed for tradingor calendar-worth variations.
The supplementary series are regroupings of the separate industry categories as follows. Revised. Prell-inary.

Meacabald datable goods industries - Bousehald furnitare, Kitchen articles and pattery, cullery, handleds and hardware neasehald arphiances, radio and 11; optimalize goods satches, and clucks, and c

Tabital goods industries. The capital goods industries geries is comparable to the previous Priducers' Capital Goods and the Preducts of Old Series categories.

Vandefense products - Wachinery, every electrical teveluting fare machiners and each ment and machiners and electronic evaponents into co-munication equipment, aircraft and aircraft parts and shipbuilding, printed ton equipment afteraft and strengft parts, and ridnance before products - Based on separate (sports on deferse work tiled by large defense contractors in the following industries, unto a published annually in the UA-15, Shipments of Defense-Oriented Industries, for the specified industries, portions of shipbuilding and repairing and railroad equipment

Magnana in 1979, the fixed year for the rederal covernment probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of preter years and factors solid nave substantially districted the current data sizes, there is no december of the other into the unital parties of the contracts of the contracts of the contracts of the contracts of the contracts of the contracts of the contracts of the contracts of the contract of

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

(Millions of dollars)

							(Millions	s of dollars)	(8.									
					Seasone	Seasonally adjusted	P						Witho	out seasons	Without seasonal adjustment 1	ent 1		
			Mon	Monthly			o'	Quarterly						Monthly	ıly			
SIC	Industry	Tuly	Timo	Mov	Ann	F	, L	111	=	1-		Last 4 mc	months		Last	4 months	(a vear ago)	
		1980P	1980r	1980	1980	1980	1979	1979	1979	1979	July 1980P	June 1980r	May 1980	Apr. 1980	July 1979	June 1979	May 1979	Apr. 1979
							ALL N	MANUFACTURING,	NG, DURABLE	AND	NONDURABLE GOOD	GOODS, TOTAL						
	All manufacturing industries: Total	244,540	243,630	243,402	242,540	238,522	228,258	221,341	213,942	205,752	243,507	243,494	244,901 2	243,705 2	214,979 2	213,818	212,123	210,291
	Total, excluding trans-	211,477	210,942	211,200	210,419	207,075	198,342	192,703	186,605	180,018	210,763	211,164	212,685 2	211,484 1	187,558 1		185,152	183,820
	Total for industries with unfilled orders	173,858	168,682	168,475	162,391	164,509	158,073	152,449	147,747	141,400	169,413	169,671	170,371	168,613 1	149,527 1	148,566	147,210	145,648
	Durable goods industries, total,	161,106	160,404	160,607	159,877	157,127	151,689	146,048	141,480	135,266	160,882	161,087	162,275 1	161,306 1	142,752	142,041	140,697	139,064
	Orders	150,434	102,921	149,611	148,654	146,068	140,633	135,537	131,133	125,319	150,251	150,228	151,054 1	149,679	132,532	131,557	130,302	128,537
	Nondurable goods industries, total	83,434	83,226	82,795	82,663	81,395	76,569	75,293	72,462	70,485	82,625	82,407	82,626	82,399	72,227	777,17	71,426	71,227
	Nondurable goods with unfilled orders	23,424	18,981	18,864	18,737	18,441	17,439	16,912	16,614	16,082	19,162	19,443	19,317	18,934	16,995	17,009	16,908	16,511
								MARKET CA	CATEGORIES A	AND SUPPLEY	SUPPLEMENTAL SERIES	ES						
	Market categories Home goods and apparel Consumer staples	17,941	18,286	18,413	18,419	18,168	17,584	17,459	17,414	17,547	18,482 29,920	19,102	19,104	18,723	18,033	18,183	17,988	17,689
	Equipment and defense pro- dvets, except automotive Automotive equipment	9,327	67,819	67,180	66,205	64,718	61,621	58,296	55,570	52,563	68,797	9,384	9,896	66,851	56,197 10,894	55,711	54,873	53,911
	Construction materials, sup- plies, and intermediate products	19,891	19,954	20,095	20,165	20,166	19,646	18,943	18,904	17,924	19,833	19,986	20,417	20,618	18,745	18,921	18,794	18,657
	Other materials and supplies and internediate products	97,513	97,506	97,344	96,905	94,867	89,311	85,970	82,290	79,105	97,717	97,571	97,926	96,984	83,447	82,441	81,515	81,123
	Supplementary series: Household durable goods indus-	9,081	9,267	9,397	9,495	9,311	9,180	8,852	8,829	8,826	9,284	9,583	9,718	9,643	670'6	9,130	9,076	£ 50 00 00 00 00 00 00 00 00 00 00 00 00
	Nonde fense,	65,760	64,782	64,217	63,464	62,102	59,178	56,443	53,681	50,535	65,577	64,956				53,866	53,131	52,076
								GNI	INDUSTRY GROUPS AND INDUSTRIES	PS AND IND	USTRIES							
32.2	Durable goods industries. Stone, clay, and glass products	6,114	6,141	6,089	6,073	5,987	5,643	5,436	5,361	5,140	6,143	6,195	6,257	6,275	5,445	5,406	5,449	5,411 523
333 333 335-h 9	France retais, total Blast furnaces, steel	20,881	20,884	20,979	20,789	20,387	19,803	19,033	18,618	17,832	20,852	20,831 11,598	20,938	20,590	18,759	18,575	18,199	18,487
		7,944	7,741	7,812	7,889	7,848	7,563	7,166	6,915	6,677	7,992	7,795	7,898	7,992	7,070	6,963	056,9	016'9
72 72	Fabricated metal prod., total.	19,256	19,451	19,816	19,747	19,659	19,402	18,716	18,512	17,751	19,420	19,636	20,156	20,044	14,632	18,668	18,441	18,254
	drums	1,370	1,439	1,568	1,576	1,502	1,554	1,397	1,369	1,297	1,484	1,606	1,760	1,782	1,471	1,526	1,503	1,499
35 351 352 352	Machinery, except electrical, total. Engines and turbines. Farm machinery and equipment	39,394	38,940 2,558 3,195	39,079 2,698 3,029	38,624 2,748 3,209	37,609 2,703 3,114	36,624 2,701 3,108	35,527 2,630 2,913	34,053 2,513 2,828	32,491 2,490 2,688	3,184	39,144 2,591 3,237	39,466 2,731 3,286	39,122 2,773 3,328	34,317	34,223 : 2,539 2,862	33,866 2,520 2,835	33,351 2,494 2,861
354 356	material handling equipment Metalwork of machinery General indus.rial machinery	8,650	8,739	8,669 2,551 3,730	8,489 2,532 3,726	8,308 2,436 3,671	8,150 2,314 3,650	8,099	7,963	7,457 2,083 3,292	8,555	8,704 2,565 3,766	8,669	8,608	8,013 2,188 3,453	7,931 2,188 3,359	7,793 2,159	7,698 2,137 3,317
See	See footnotes at end of table,														-		-	

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			March.	The CENTS				211.18.						1.64				
SIC	Industry					,						13.	1.44		10.1	·	e 31 e 4	
		1990P	19803	l test	25.	- 1). (188	E 5.	Ala.	11	41	17.
	· .							13.81 T.		18.								
36	Electrical machinery, total,	1 s	.1,861	* 54		1,46,1	, ,43		* * * * * * * * * * * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·		, x, ,	,	?	14,1.4	14, 41	S.	f .
365 366 367	and institution outliness and indestrate apparates. Howeverse and TV. Countries of TV. Countries of TV. Floritour or outlinest.	4 2 8 N S	3,980 1,448 1,084 7,440 4,380	48. 19.16.1. 19.16.1. 19.16.1.		\$ 1 5 5 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			1 - 1 =	1 = 1			5.1.5.55			11114	
371 371 372,6 5731	Transportation equipment, 1910, or of the part of the	1,14	2, 24 2, 24 2, 24 2, 24 2, 24 3, 24	7,316	1	· · · · · · · · · · · · · · · · · · ·	\$4 B	12 1 2										
	Instrument and related products, trail, Servertiffs and organicering. Programmer goods. Will they directly cooks.		7 7 T	25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* 12 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 *	* * * * * * * * * * * * * * * * * * *	7 7 2	.			: : : : : : :		, , , , , , , , , , , , , , , , , , ,			* * * * * * * * * * * * * * * * * * *		198
	Industries,	11,41	11,146	11,167	1.1.1	£ .	41.936	111, 161	1,14	., .,		<u>.</u>		3 ,	7.4 11	11,50	11,515	<i>7.</i>
201 208 203-6,4	Youthardite goods indicestrated from Lindred product		24,741 1,741 1,741 11,744 11,155	20,165 1,766 1,886 11,886 11,7111	6.55 % 11.55 % 12.55 %													
~	Textile will products	1, 400	6,08%	6,149	6,143	56 J. 36	7	5,695) vale	5, 133	1.1		7 3 7	1, 36	ol	1, 1		
261-3	Paper and allied products, total, paper, etc. Phip, paper, etc. Paperboard containers.	2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7,598	7,479	7	96.75	2,13 2,13 2,13 2,13 2,13 2,13 2,13 2,13		\$ 1 m	\$ 7 .	執其		2 1 2 1	7, 215 669 , 100 1, 130	111, 111, 111, 111,	1,1915 1,1915 2,1915		
281,6	Chemicals and allied products, total	-	114, 318	14,451	14,.74	18,677	16, 38.	15,44	15,415	15,4 7	* * * * * * * * * * * * * * * * * * * *	7 CT 6 12 T	14,500	19,143	15,940	15,0004	-	£
783,4	Drugs, somp, and tolletries.	2 -	5,707	5,643	5,31h	5,455	\$ 5 \$ 6 \$ 6	527.15	5,181	27.04.0		54 3111 24 7 4 3	5,767	F Track	7, 7,	5,284	2,0 Ma	#40°5
29	Petroleum and cond products Rubber and plastics products,		8,763	5, 18,	8, 188	5,016.	6,581	6, 34.1	5,44.5	5,145	£ .	\$ 5 ° £	4 r	- 55 0 4 x	9,1945	5,287	2,011	Stuts
5	n.e.c	4,753	4,817	1 , 48h	5 ye 98	757.	1777	., 10.	-	41, 116		τ τ	į		7 7 7	1,88,1	î F	4,
125	All other nondurable good	12, 30	112,832	1.,749	1,577	1., 37.5	11,690	11,854	11,088	- i	*	13, ~70	13,186	1.,718	1.,334	12,265	,	11,150
Pre	Preliminary. Revised.																	

'Shipments and now orders are the totals for the preriod and are adjusted for trading-day and trading-day or advanta-earthy parables, or the separate industry categories as follows. The supplementar series are responging, of the separate industry categories as follows.

Household dramble goods industries . Household furniture; kitchen articles and portery, cutlery, handtools, and hardware; huasehold dramble goods, watcher articles and portery.

Variable posts in the series is commanded to the previous brothers. Capital Goods and the betwee Products (old series) caregories, that and the action of the previous brothers. Capital sectors are serviced to the previous of shiphuling and repairing and rather designation configuration communication communication communication continued. The profession of shiphuling and repairing and rather designation continued to the profession of shiphuling and asserted the profession of shiphuling and asserted the profession of the professio

Table 5. -- VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP

(Millions of dollars)

				Season	illy adjust	pa						Witho	ut ceasons	ad nusting	nt		
		Mont	thly			o o	uarterly						Month	119		4000	
Industry											Last 4 m	onths		Last	+ month-	a year ago	
	July 1980P	June 1981	May 1980	Apr. 1980	1980	1197.y	111	11979	1979	July	lune 1980 ^T	May 1980	Apr. 1980	July 1979	Jun.	May 1973	4pr 197 +
									TOTAL								
All manufacturing industries, total	344,540	243,030	343,402	242,54.	238,522	228,258	221,341	213,942	205,752	243,567	243,494	244,901	243,705	214 979	213,818	212,123	210,291
Durable goods industries, total	161,106	160,404	150,607	159,877	157,127	151,589	146,048	141,480	135,255	14. 582	161,087	162,275	lal, 30th	142,752	177,771	140,097	139,0hu
Petrary setal	20,881	20,884	20,979	20,789	24,387	19,803	19,033	18,018	17,832	2, 852	20,831	20,938	20,590	18,754	18,57	18,199	18,487
Fabricated metal	19,250	19,451	39.079	19,747	19,054	19,402	18,716	18,512	17,751	19,420	19,636	20,150	20,164	18,632	14,558	18,441	18,254
Flortheal machinery	22,008	21,861	21,924	21,999	1,620	20,598	19,462	15,689	18,048	22,147	22,238	70+177	22,279	14,129	19,1191	18,957	16,458
Transportation equipment	33,00,5	32,688	32,202	32,1.1	31,447	29,916	28,038	27,337	25,734	32,744	12,130	12,216	32,221	27,421	25,40	20, 4"1	1.7, 7
Instruments and related products	11,471	12,046	12,167	12,23%	32,181	11,436	11,700	11,594	11,267	11.994	22,328	12,265	12, 186	11,570	11,672	11,515	11.478
Nondurable goods industries, total	83.434	83.226	82,735	8, 663	61.395	75,564	75,243	72,492	70,485	M. n.25	82,407	82.526	8,349	727	71.777	73.425	71.225
Chemicals and allied products	19,778	19,330	19,451	77.7	18,477	16,982	16,492	15,915	15,627	18,953	13,479	14,133	19,243	12,920	1.,004	15,747	12,918
Rubber and plastics products, n.e.c	4,733	4,817	8,384 4,485	2, 388	4, 354	4,277	0,343	70710	2,143	20 00 00 00 00 00 00 00 00 00 00 00 00 0	8.8.5	8,325	8,035	469,	E X X	16.4	2,015
All other nondurable goods industries	865,08	50, 31b	775 64	49,905	26,7,24	48,229	47,518	46,285	656 ++	49,916	51 , club	0,015	48,936	45,867	45,459	45,003	45,338
								MATERIALS	AND SUPPL	SHE							
All manufacturing industries, total	85, +88	82,515	83,071	83,408	52,314	-9,11+	75,70	73 072	1,162	82.073	845.239	82.73	83,036	3.5 444	72.747	-2. Inn	7].63]
Durable goods anderstrates total	St. a.th	50 177	200 000	51 co8b	50 347	48 AS2	20 417	803	7 1	358	111115	27.2 (1)	Su will	1564	700	10.0	1.7
Stone, clay, and glass products	2,376	2,335	2,327	2,300	2,277	2,227	2,034	2,035	1,945	2,370	318	2,337	2,302	2, 70	2,019	2,027	1,964
Primary metals	8,300	8,194	8,213	8,04.	7,419	7,411	6,988	6,777	0000,4	8,233	8,107	7,497	7,739	147.4	202,10	37.0	B-0'.
None lectured rachinery,	11,178	11,114	11,035	11,214	10,963	10,752	4,41X	9,507	1, 82	11.295	11,124	11,061	11,258	1000	1.1	7, 584	2,124
Electrical machinery	6,179	0,171		0,289	12,22	5, 336	2,034	>,454	5,200	5,313	h, 252	767,0	P. 302	. 681	2,534	25 4 34	,281
Transportation equipment	8,746	8,32	7 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	8, 709	115,8	8,351	2000	7,625	1587	8,290	K,277	8,594	8,588	5,542	7,55.	1,982	,77,
All other durable goods industries	4,911	4,920	066.4	5,038	5,019	1,490	4,932	069,4	4,514	4,930	4,857	1,884	4,948	4,735	670,1	7 7	1,473
Nondurable goods industries, total	55,052	32,338	47,478	32,522	51, 407	10,237	29, 3,5	28,259	27,564	11, 115	32,128	\$-, 101	32,433	18,201	28,140	17,941	. 5,130
Chenteals and allied products	1,84	2,943	5.1.5	1,158	2,943	7 7.09	2 223	1,932	1 1 1 1	1,01,0	1 450	1,034	27.1	7,87	078.	. 888	. 2.
Rubber and plastics products, n.e.c	1,740	1,825	1,877	K 17 1	1,847	1754	1,704	1,53%	1,613	1,782	1,836	1,84	1,914	1,762	1,590	1,640	1,695
All other hondarable goods industries	1000	02,67	-1,717	- Trans	NCC 4 4	100	700,000	12,11	10,000	1		000,177	7, 440	14,120	10,	10,747	12,144
								WORK I	A PROX FOS								
All manufacturing industries, total	84,565	84,502	8,4119	83, St N	82,272	78,611	75,598	72,791	100,74	84,522	84,149	84,643	54,138	3,571	72,110	11,137	20,772
Durable goods unustries, total	71,847	71,891	72,411	70,594	285,50	66,837	93,810	01,411	17,720	71,353	11,945	71,852	71,338	1,804	61,193	56,247	. , . ,
Primary metals	2000	7,398	C18.	1,1,1	10, +3m	, oll 5	7 30°	5,684	1,274	3, 34.8	. 35	, 52x	1,150	26.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000	4 4 4
Fabricated metalls	8,019	17,103+	8,104	8,095	127,4	8,080	71.7	7,135	7,132	860,8	8,114	5,113	8,255	21111	7 71.	,	14.
Electrical machinery	10,000	10,729	17,931	10,631	10,41	10, 164	4,435	8, 305	3,172	10,862	10,817	10,824	10,750	9,007	8,441	5,38,	, 10° .
Transportation equipment	20,262	20,409	19,044	19,477	19,155	17,832	15,047	15,843	14,453	20,440	,113	19,653	14,713	15,491	87.74	1.179	24, 4
All ther durable goods industries	2,30	2,814	1,4,4,	2,885	20, 100	2,510	2,561	2,065	2,385	1 1		2,840	2,862		To I'm		
Nonlurable goods industries, total	12, 18	12,011	1., '08	12,774	12,587	11,774	11,888	11,580	10, 194	11, 7.9	12,55n	12,741	12,740	11,500	11, 11	11,	11,117
Chemicals and allied products	5.2	2,445	2,583	2,419	2,357	2,048	1,872	1,653	1,482	fpo.'7	1,559	182	0247	1,711		7.5	1,52%
Rubber and plastnes products, necession	900	775	F.7%	Sh56	808	83%	* Cx	854 1	507	55,	258	200	T T	ý	7	B. c.	5,6
All other conductive good industries	0000	FO7 14	12,020	0.00	10,14	0, ++1	7	9,300	P.6.14	100		0,331	15.	7.	116.		To t
								FINIS	HEI GOODS								
Wil manufacturing industries, total	77,487	79,013	76,212	75,704	73,93n	71,532	59,873	080 9	45,579	0,812	950,17	77,405	70,031		12. %	77.00	a Think
Durable goods industries, total	38, 6, 3	38,335	38,531	38,197	37,195	35, 394	55,521	35,257	34, 34	34, 2, 1	1+,153	34, 444	0.4.0	2, 00	30,147	74.1.	3 ,935
Primary metals	5,513	2,242	5,451	5,593	5,532	5,374	5,141	2,152	4,453	. 253	2,374	2,1,1	707	5,175	5,23	×17	2,4,4
Fabricated me talk,	10 3882	762,2	4,800	4,710	4,003	6,510	4,424	4,380	66212	4,822	4,857	64,749	4,875	4,378	4,446	4,51b	4,511
Electrical machinery	6m, 17	146,	5,047	5,074	1,88.1	4,596	4,393	4,330	4,350	10, 100	5,229	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5,217	7, 44, 1	4,500	4,119	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Transportation . quipment	4, 55	3,898	3,916	3,935	3,741	1,733	5,947	3,869	5,514	4, 30.2	3,940	5 de 4	9,920	5,285	1,832	1,930	1,740
Instruments and relate products All other durable goods industries	4,310	4,307	2,04.	1,490	1,345	1,917	4,272	1,881	1,751	4,311	2,118	2,15	4,57%	4,177	4,425	7,44,7	4,459
Nondurable goods industries, total	38,004	38.277	37,681	37.547	30,741	34,538	34,052	32,813	31,822	58.141	37,723	0,534	37,22h	32,404	32,414	32,-1.	31,980
Chemicals and allied products	4,507	1,805	2,055	255,0	9,027	8,449	7,947	7,507	7,324	4,514	4,574	3 447	2000	503	7,54,	382	7,514
Rubber and plastics products, n.e.c.	1000	2,237	2,280	25,252	2,238	2,212	2,382	2,321	2,295	2,132	1,232	2,378	75	5777	2,39	777	7 7
P P. P. P. P. P. P. P. P. P. P. P.	1,000	0.4.4.0	-X+737	27 122	170,17	CCO'17"	671,000	00.104	12,701	77.738	17,17,	-1, 21		******	100	100,000	
Chellaticaty, McClant.																	

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

	Mo	nth-to-mont	n	Avera	age monthly	rates of ch	ange	Average,	1975-1979
					3 months		12 months		
Item and industry group	June- July 1980	May- June 1980	Apr May 1980	April- July 1980	Jan April 1980	Oct. 1979- Jan. 1980	July 1979- July 1980	Average rise	Average decline
Shipments:									
All manufacturing industries	+2.7	0.0	~1.4	+0.4	-1.9	+1.5	+0.2	+1.6	-1.2
Durable goods industries	+4.2	-0.6	-3.8	-0.1	-2.5	+1.1	-0.2	+1.9	-1.9
Nondurable goods industries	+1.3	+0,6	+1.0	+1.0	-1.3	+1.9	+0.6	+1.6	-0.7
Inventories:									
All manufacturing industries	+0.4	0.0	+0.4	+0.3	+1.5	+1.3	+1.0	+0.7	-0.3
New orders:									
All manufacturing industries	+5.7	-0.2	-3.1	+0.7	-2.7	+2.0	+0.2	+1.9	-1.2
Durable goods industries	+10.3	-1.3	-7.0	+0.4	-3.8	+2.1	-0.1	+2.8	-2.0
Nondurable goods industries	+1.4	+0.7	+1.0	+1.0	-1.5	+1.9	+0.6	+1.5	-0.7
Unfilled orders									
Durable goods industries	+0.5	-1.0	-0.8	-0.4	+0.5	+1.1	+0.4	+1.2	-0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

(1)8.5)	ed on seaso	nally adjus	ited data)					
Industry group	Ins	entoriess	hipments r	itio	Unfil:		-shipments i backlog)	ratio ¹
mada, group	1u1v 1980	June 1980	May 1980	April 1980	July 1980	June 1980	Мву 1980	April 1980
All manufacturing industries	1.68	1.72	1.72	1.69	3.72	3.82	3.83	3.75
Durable goods industries	2,24	2.32	2.31	2,21	4.52	4,60	4,61	4,50
Stone, clay, and glass products	1,49	1,62	1.60	1.54	0,73	0.79	0.83	0.81
Primary metals	2.03	2.13	2.04	1.83	2,49	2.57	2,53	2.46
Fabricated metals	2.24	2.31	2.35	2.16	3.58	3.67	3.71	3.42
Machinery, except electrical	2.92	2.82	2.89	2.89	4.54	4.44	4.61	4.69
Electrical machinery	2.20	2,21	2.18	2.23	3.85	3.92	3,86	3.93
Transportation equipment	2.25	2.52	2.42	2.25	13.27	14,02	13.71	13.05
Instruments and related products	2.46	2.51	2.50	2.54	1.82	1.88	1.92	1.95
Nondurable goods industries	1.14	1.15	1.15	1.16	0,66	0.71	0.74	0,76
Food and kindred products	0.98	0.98	1.00	1.06	(X)	(X)	(X)	(X)
Tobacco products	2.99	3.49	3.10	2.89	(X)	(X)	(X)	(X)
Textile mill products	1.48	1.54	1.54	1.47	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.25	1.32	1,32	1.27	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.49	1.55	1.53	1.48	(X)	(X)	(X)	(X)
Petroleum and coal products	0,66	0.59	0.57	0.59	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c	1.28	1.41	1.51	1.45	(X)	(X)	(X)	(X)

⁽NA) Not available. $p_{\text{Preliminary}}$. r_{Revised} . (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Shipments, Inventories, and Orders

AUGUST 1980

U.S. Department of Commerce BUREAU OF THE CENSUS

M3-1(80)-8 FOR WIRE TRANSMISSION, 3:00 P.M. October 1, 1980

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in August increased \$0.5 billion or 0.3 percent to \$147.4 billion the Department of Commerce, Bureau of the Census reported today. An increase in orders for nondurable goods more than offset a \$1.1 billion or 1.5 percent decline in durable goods orders.

The decline in durable goods orders, which followed a large increase in July of 11.3 percent, was caused mostly by the aircraft industries. New orders for aircraft and parts dropped \$2.4 billion or 41 percent to \$3.3 billion, after an 18 percent increase last month. Excluding the aircraft industries, durable goods orders showed an increase of 1.8 percent.

The most significant increases in durable goods new orders came from the electrical machinery and steel industries. Orders for electrical machinery were up \$1.2 billion or 12.6 percent to \$10.9 billion, while new orders reported by steel producers increased \$1.0 billion or 20 percent to \$5.7 billion. This is the third consecutive month a significant increase has been reported in tool orders.

In the capital goods industries, new orders for nondefense capital goods declined \$1.3 billion or 6.0 percent to \$20.3 billion. A decrease in commercial aircraft and parts orders accounted for over two-thirds of the decline. Excluding aircraft, orders for nondefense capital goods were down 0.6 percent, with increases in electrical machinery orders offsetting declines in the nonelectrical machinery category. New orders for defense capital goods were down \$0.4 billion or 8.2 percent to \$4.0 billion. Here also a decline in the aircraft industry more than offset increases in the other defense categories.

Shipments of manufactured goods in August increased \$1.8 billion or 1.2 percent to \$147.2 billion. This followed a \$3.9 billion or 2.7 percent increase in July. In the durable goods industries shipments increased \$0.5 billion or 0.7 percent to \$72.8 billion. Primary metal shipments totaled \$10.7 billion, for a \$0.5 billion or 4.7 percent increase; electrical and non-efectrical machinery shipments totaled \$24.4 billion for a \$0.4 billion or 1.8 percent increase.

In the transportation equipment industries all categories except shipbuilding had declines in shipments. Aircraft and parts shipments were down \$0.3 billion or 6.4 percent to \$4.0 billion, while motor vehicle and parts shipments¹ were down \$0.1 billion or 1.2 percent to \$8.5 billion.

Shipments by the household durable goods industries declined \$0.1 billion or 2.3 percent to \$4.7 billion. An increase in July shipments of household durable goods of 5.1 percent followed 4 consecutive months of decline.

Shipments by the nondurable goods industries increased \$1.3 billion or 1.8 percent to \$74.4 billion. The foods category was up \$0.9 billion or 4.4 percent; petroleum, up \$0.5 billion or 3.3 percent; chemicals, up \$0.4 billion or 3.4 percent; and rubber and plastics products, up \$0.2 billion or 4.3 percent. All other nondurable categories had declines.

The value of manufacturers' orders backlogs in August stood at \$282.6 billion, virtually unchanged from July. Since December 1979 when the backlog level was at \$279.7 billion, its value has increased only 0.1 percent per month as compared to the average monthly increase for all of 1979 of 1.3 percent.

Industries reporting significant increases in backlog in August were steel, up \$1.0 billion or 6.9 percent; electrical machinery, up \$0.5 billion or 1.4 percent; and shipbuilding and military up \$0.4 billion or 3.6 percent. Virtually all other industries reported declines.

The book value of manufacturers' inventories declined \$0.5 billion or 0.2 percent in August to \$243.6 billion. This is the first monthly decline reported since the 0.2 percent decline recorded in December 1975. The August inventory decline resulted from a billion dollar drop in the value of non-durable goods inventories. All nondurable goods categories except foods reported decreases. The value of inventories of durable goods manufacturers increased \$0.5 billion or 0.3 percent in August. Excluding the aircraft industries inventories of durable goods manufacturers also had a slight decline.

The figures on the durable goods industries in this report supersede those issued earlier this month. The present report is based on more complete reporting, but is still considered preliminary. Final figures will appear in the full report scheduled for release on October 31. The advance report on durable goods for September is scheduled for release on October 22.

Year-to-year variations in both the timing and duration of the model changeover period are sufficiently great that the normal seasonal adjustment procedures do not adequately identify the seasonality during the period and may introduce substantial erratic movement. To compensate for this, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. These seasonally adjusted data in each of the 3 months information is received. The seasonally unadjusted automotive data are not subject to any special estimating procedure.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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¹ Motor vehicle assembly plants close down for retooling, generally during July, August, and September, for the forthcoming model year.

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Table 2. --AALUE OF MANIFACIURERS NEW ORDERS FOR EMICSTRY (ROLDS; MARKET "VIEWORDES AND SUFFRMENTIARS, SPRIN--- MARKET

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7 S	Rount, goods multipries Stone, clay, and glass products	5 x		17		4.7	÷ ′.	= ; ;		- 	· =]		1	÷ =	← Î;		, 1 2
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333-6,			1, 11%	7.		R T F		7, 10 6	1.,		Ā	7	_ ;	× 7 70	į.	-	., .63	7
975	lab teated setal good, total.	<u>.</u> E	1,114.	[1,43]	14,815	14,400	13,400	18, 26	18, 11.	10,71	7 K	, , , , , , , , , , , , , , , , , , ,	14,131	m, 156	,5,55	15,43.	18, 118	18,441
	drugs, marrers, and	1.4	1,174	1,434	1, 508	1, 502	1,034	1,575	1,360	1,74	1 200 1	* 4 * * * * * * * * * * * * * * * * * *	l, ne b	1, 200	2.4.4	1,4.71	1, 1, 4	1,
5 15 E	Machiner, except olectrical, total, Edgins and unbines,	17.00	19.3	38,940	34,074	37,609	36,644	2,630	34,053	22,441	18.406	***	100	97.2	880 T	14,11	1 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	23,843
323	Construction, canage, and surferral handling equipment		8, 720	8.734	8.009	8 308	8 150	8 044	7 3h3	7 457	-	- z	9,73,	707.5	200	40 ° 3	200,	.,017
354	Metalworking machinery	3,768	2,608	3,775	3,730	3,671	2,314	3,520	2,184	2,083	2,346	5,737	3,766	3,753	5,12,5	2,188	3,374	3,334
Sec	See footnotes at end of table,																	

Table 4. --VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES --CONTINUED

(Millions of dollars)

					Coord	Socionally advantad	Po	s of dollar	[2]				3		t the bound of the			
					2000	oening frym		l	I	1	1			out seasons	at ad justific			
			Vonthly	this				Quarterly						Wonthly.	ılv			
SIC	Industr											Last 4 m	months.	-	Tavit	4 conths	(a vear ages)	
		Aug.	July 1980 ^r	June 1980	Nay 1980	1 1980	1079 1979	111	1979	1979	Aug.p	July 1980r	June 1980	May lus0	Aug.	July 1	June 1979	Man 1974
								INDUSTRY	GROUPS AND	n industries	T 53	1	- 1					
36	Electrical machinery, total	21,983	22,079	21,861	21,424	21,620	20,598	19,462	18,689	18,048	24.25 24.35	22,418	27,298	11, 467	14, 18	14,129	14,091	18,937
36.7 36.7 36.7	and distribution equipment and industrial apparatus. [Lousehold appliances. Hadio and Ty. Comunication equipment. Electronic components.	3,980 1,891 1,081 8,773 5,396	4,033 1,932 1,095 8,252 3,374	3,982 1,998 1,084 7,992 3,385	3,996 2,092 1,101 7,916 3,336	3,808 2,161 1,053 7,741 3,240	3,770 2,116 1,039 7,095 3,099	3,637 1,958 970 6,588 2,897	3,514 1,955 989 9,134 2,839	3,306 2,021 1,012 5,830 2,712	1 884 1 884 1. List 8	1,479	2,1.1 1,131 1,131 8,025 3,423	4,784 2,253 1,103 8,019 3,363	1911	3,522 1,7911 1,073	3,545 7,076 1,033 9,134 2,870	3,534 2,107 1,033 1,030 2,850
37	Transportation equipment, tetal. Wotor educies and parts Aureraff, diseales, and	7,125	7,218	32,588	32,202	31,447	29,915 8,012	28,638	27,337	25,734	2 6 2 6	2.00	32,330	32,21e 7,63+	- 1.1.	17,471	3,506, 8	176, 1
3731	Shipbulding and ulitary tank vehicles.	.1.835 	21,214	2,385	2,274	19,049	2,165	15,549	1,714	13,175	194]	21.512	20,483	19,457	1., 438 4,121 ·	14,744.	1+,57>	14,103
381-4	Instrucents and related products, total Secentific and engineerings. Photographic goods	8,403 5,957 840.5	7, 0, 444 2, 0, 444	8,343 5,854 2,083	8,351 5,754 131	8,37 5,547	7,765 5,291 1,486	7,471 5,021 1,941	7,317	7,004	1137	\$ 0.00 \$	5,913	8,510 5,834	1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,471	7,435	7,314
45.8	VII other derable goods industries	10,308	12, 27	12,046	12,167	181, 181	11,930	11,756	11, 244	11,207	195	12,115]	11, 178	1.,26.5	1927	11,576	11,07,	11, 12
20 203 203 203-4, 9	Nondarable goods industries Ford and Lindred products, total. West produces [Forenges. Fats and oils.	21,115 1,883 3,708 1,873 11,995	23,740 3,772 1,875 11,674	20,.72 1,781 3,867 1,764 11,152	.0,102 1,765 3,809 1,585 11,511	,0,431 1,851 3,830 1,627 11,333	20,397 1,927 3,845 1,913 10,999	19,780 1,757 3,672 1,718 10,975	18,457 1,719 5,622 1,571 10,474	18,118 1,057 3,484 1,544 1,544	1,5419 1,5419 1,541	1,864	1,349	14,459 1,627 5,624 1,568 10,471	40. 5 . 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	18,19. 1,096 3,506, 1,410	18,03- 1,740 3,531 1,514	17,423
2.1	Tobacco products	3,575	3,618	3,529	3,505	3,500	3,503	3,762	3,068	3,549	1.411	,,	3,370	3,428	:	3,. 34	ź.	3,5 1
21	featile will products	5,8,5	0*6*4	6, 185	15 y 144 4	960*4	>,844	5,695	5,857	1,714	871	440	181,	0,3119	2	۰٬٬۱۱۰	***. ' .	, 5.3
26 201-3 204 204	Paper and allied products, total. Pulp, paper, etc	7, 47.	2,20,1	7,548	7,474	7,296 2,435 1,98n	2,795 2,319 1,909 2,568	6,423 2,143 1,834 2,440	0,315 2,987 1,778 2,451	2,054 2,048 1,759 2,247	7 1 7 7		2,691	\$ 5 6 4 2 7 7 7		2, 31. 2,113 1,837	1111	2 7 m 1 m 1 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2
251.0	Industrial che reals, ex cept pricate. Drugs, soap, and tolletries,	F. 15	18, 454	19,330	19,451	18,677	2,240	14,492	15,91h	15,627	4 53 6 5	£ 7 7 7 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	18,474	19,233		0 7 7	180,1	77. 1
6.7	Petroleum and coak products	8,71*	(XX.)	8,703	8,384	5,00	1,581	3+3	, + tl.	0,143	8,830	x' (C	8,534	4,35,	3	4 312		, n ₃₁
ν,	п.е.е.	c6+++	7.4, "+	4,817	4,986	4,754	+,777	4,940	++ 851	41, 45	7	4, 2.15	6,78,4	· · ·		- T Y T	1 18 1	t t
5.5	industries	L. 54.	12, 782	12,832	12,739	12,373	11,690	11,859	11,688	11,514	77	14, 34,7	13,470	13, loc	= :	17,334	12,567	1,018
PPP-	Preliminary, Invited. I have been a superior and an are adjusted for trading-day and releasing multi variations, millied orders and uncontracted as a second or and a second order and uncontracted and are and a second order	s for the p	period and a	are adjust	ed for tradi	ng-day and	alendar u	onth variat	n ms. mil	Hed order	and mye	if it it es an	41 tm	-	e pertod a	t as the first	ad usted to	Ž.

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7,862 5,505 8,882 5,179 3,235 2,560 2,527 9 9 5 9 5 9 5 9 8 9 8 1 9 8 7.11.7 5.11.3 5.11.3 5.11.3 5.11.3 5.11.3 5.11.3 6.10.3 6.

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

	Mo	nth-to-mont	h	Avera	age monthly	rates of ch	ange	\ve1	age,
Item and industry group	July-	June-	May-		s month		12 wonths		
Them and industry group	Aug 1980	July 1980	June 1980	May- Aug. 1980	May. 1980	Nov. 1379- Feb. 1950		No rage P1 se	decline
Shipments:									
All manufacturing industries	+1.2	+2.7	0.0	+1.4	-2.5	-1.+	+0.3	+1 0	-1 2
Durable goods industries	+0.7	+4.7	-0.6	+1.6	-4.3	+2.4	-0.2	+1.9	-1 /
Nondurable goods industries	+1.8	+0.9	٠٥. ه	+1 1	-0.8	+1.5	+0.7	11 1	-0.9
Inventories:	ing industrie								
All manufacturing industrie	-0,2	+0.2	.),.)	+0.0	+1.	-1		• `	- 1.
New orders:									
All manufacturing industries.	+0 3	+1,)	-0.2	+2 0	- 5	+1.7	+0.2	-1 1	-1 2
Durable goods industries	-I.5	-11	-1.3	+2.7	-b ()	.2.2	-0.2	43 H	-2.0
Nondurable goods industries	+2.2	+1)	+0.7	+1 +	=() +		+0.7	£1."	-0 7
Unfilled orders:									
Durable goods industries	0.0	+0.6	-1.0	-0.1	-),()	+1 ')	+.1 4	-1.2	-0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

		daily adjust	ou dutur,					
Industry group	Inv	entoriess	upments ra	tio	Unfil	led order - (months)	-shipments i bicklog)	catio ¹
Industry group	\ugu=t 1980	July 1980	June 1980	Nav 1980	August 1980	July 1980	June- 1980	Мау 1980
All manufacturing industries	1.66	1.68	1.72	1.72	3.72	3 71	3.82	3.81
Durable goods industries	2.22	2.23	2.32	2.31	4.45	4.48	4 50	4,61
Stone, clay, and glass products		1.50	1.62	1.60	0.74	0.74	0.79	0.83
Primary metals	1.92	2.03	2.13	2.04	2.47	2.50	2.57	2.53
Fabricated metals	2.19	2.21	2.31	2.35	3.50	3 55	3.67	3.71
Machinery, except electrical		2.82	2 - 82	2.89	4.35	4.43	4.44	4.51
Electrical machinery	2.12	2.19	2 21	2.18	1.76	3.82	3.92	3.86
Transportation equipment	2.34	2.24	2.52	2.42	13.47	12.94	14.02	1 3 71
Instruments and related products	2 18	2.50	2.51	2.50	1.76	1.85	1.88	1 92
Nondurable goods industries	1.11	1.14	1.15	1.15	0.71	0 b8	0.71	0 74
Food and kindred products	0.97	1.00	0.48	1.00	(X)	(7)	(X)	(X)
Tobacco products	3 00	3.00	3.49	3.10	(7)	(7)	(7)	(X)
Textile mill products	1.47	1.48	1.54	1.54	(NA)	(XI)	(NA)	(NA)
Paper and allied products	1.30	1.27	1.32	1.32	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.39	1.47	1.55	1.53	(Z)	(X)	(7)	(X)
Petroleum and coal products		0.64	0 59	0.57	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c	1.1+	1.32	1.41	1.51	(X)	(X)	(7)	(X)

⁽NA) Not available. Preliminary. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm archinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacca; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum of coal products; and rubber and place ticks products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for un filled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages I-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



COUNTY BUSINESS PATTERNS 1978

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County Business Patterns presents intercensal data on employment, number and employment size of establishments, and payrolls by 2-, 3-, and 4-digit levels of the Standard Industrial Classification (SIC) for States and counties. This annual series includes a separate paperbound report for the United States, each State, and the District of Columbia.

The individual State reports present for the State, number of establishments, employment, and payroll data by employment-size class to the 4-digit SIC level. Also included, by major industry group, are data on the number of establishments with 1,000 or more employees, by employment-size class.

The U.S. Summary includes data by detailed industry (4-digit SIC) level for the United States and by major group (2-digit SIC) for each State. For the U.S., number of establishments, employment, and payroll data are also provided by employment-size class to the 4-digit SIC level. Also included, by major industry group, are data on the number of

establishments, employees, and payroll of administrative and auxiliary establishments

The Standard Metropolitan Statistical Area (SMSA) includes the same data items as the State reports by major group (2-digit SIC) for each SMSA. For the New England States, data are published by the New England County Metropolitan Area (NECMA).

CBP is a standard reference source of small-area data for business persons, market researchers, and industrial and civic planners.

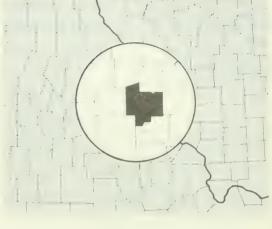
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Analyzing market potentials Determining location and size of sales territories

Establishing sales quotas and advertising budgets

Locating production, marketing, and service facilities.

CBP data are shown in detail for the following broad industry categories: Agricultural services, forestry, and fisheries



Mining
Contract construction
Manufacturing

Transportation and other public utilities Wholesale trade
Retail trade

Finance, insurance, and real estate Services

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Manufacturers' Shipments, Inventories, and Orders

SEPTEMBER 1980

U.S. Department of Commerce

For Wire Transmission 3:00 P.M. Friday, October 31, 1980

(All figures in text below are in seasonally adjusted dollars.)

New orders for manufactured goods in September increased \$7.1 billion or 4.8 percent to \$153.6 billion the Bureau of the Census, Department of Commerce reported today. This increase followed an August decline of 0.4 percent, revised from the 0.3 percent increase reported earlier for August, which was based on less complete reporting.

New orders for durable goods were up \$6.5 billion or 9.0 percent, with all industry categories except electrical machinery reporting increases. Within the transportation industry category, the aircraft and parts industry increased \$2.2 billion or 69 percent to \$5.4 billion, following a 44 percent decline in August. Although new orders for this industry are volatile, the volume of orders for September is comparable to the average monthly volume of orders during 1979 of \$5.5 billion.

New orders for nonelectrical machinery increased \$1.4 billion or 10.7 percent to \$14.3 billion. This is the largest percentage increase in that category since the 12.5 percent recorded in January 1976. Within the primary metal industries, new orders for steel increased \$0.6 billion or 10.5 percent to \$6.2 billion. After dropping to a low in May of \$3.4 billion, new orders for steel have been steadily increasing, with the September volume topping the previous high for the year of \$5.9 billion recorded in February. New orders for nonferrous metals increased \$0.4 billion or 8.4 percent to \$5.3 billion, following an August decline of 8.2 percent.

Within the capital goods industries, new orders for defense capital goods² increased \$2.0 billion or 52 percent to \$5.9 billion, reflecting large orders received by the aircraft and ship-building industries. New orders for nondefense capital goods increased \$1.2 billion or 6.0 percent to \$20.5 billion. The pattern of change for the specific nondefense categories was mixed.

Shipments by manufacturers in September increased \$5.0 billion or 3.4 percent to \$151.7 billion. Although shipments have been increasing since June, they are still below the February high of \$152.9 billion. Shipments by the durable goods industries were up more significantly, increasing \$4.2 billion or 5.8 percent. Nearly all categories reported increases, the largest of which were aircraft and parts, up \$1.0 billion or 25 percent; nonelectrical machinery, up \$0.8 billion

or 5.6 percent; steel mills, up \$0.6 billion or 12.8 percent; and fabricated metal products, up \$0.6 billion or 7.3 percent.

Shipments by nondurable goods manufacturers increased \$0.8 billion or 1.1 percent to \$75.4 billion with increases by chemical, paper, and apparel producers accounting for most of the increase.

The backlog of manufacturers' orders in September increased \$2.0 billion or 0.7 percent to \$284.4 billion. Unfilled orders in the defense capital goods industries increased \$2.2 billion or 4.0 percent. Without the defense capital goods industries, manufacturers' backlog declined 0.1 percent.

The book value of manufacturers' inventories in September increased \$0.9 billion or 0.4 percent to \$244.4 billion. Inventories of durable goods manufacturers declined for the second consecutive month, down \$0.3 billion or 0.2 percent. Offsetting the durable goods industry decline, inventories of nondurable goods manufacturers increased \$1.2 billion to 1.4 percent to \$83.6 billion. A billion dollars of that increase came from the foods industry.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for October is scheduled for release on November 25, 1980, and the full report is scheduled for release on December 4, 1980.

Year-to-year variations in both the timing and duration of the model changeover period are sufficiently great that the normal seasonal adjustment procedures do not adequately identify the seasonality during the period and may introduce substantial erratic movement. To compensate for this, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. These seasonally adjusted data are recompiled each month as additional information is received. The seasonally adjusted estimate of shipments for motor vehicle assembly operations for the third quarter was revised upward \$0.6 billion or approximately \$0.2 billion per month. The seasonally unadjusted automotive data are not subject to any special estimating procedure.

² For all of the defense capital goods series, modified seasonal adjustment factors were used to account for the change in the Federal Government's fiscal year from a July 1 through June 30 basis to an October 1 through September 30 basis in 1976. These factors were introduced in the July 1977 data and will continue to be used until sufficient data are available to assess the impact of the change in the fiscal year on the

seasonal pattern of the industry.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

¹Motor vehicle assembly plants close down for retooling generally during July, August, and September, for the forthcoming model year.

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See	See footnotes at end of table,																	

Table 1. --Value OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES - Continued

(Millians of dollars)

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		_	3	June 1,479		F. 128. F	2,550	17,056	5,713	734	5,211 1,873 1,131	1	13,800 2,137 2,580 7,540	4,207	1,400	13,175	2,15,2	1	3,4.3	* **
	ent;		ta year as	July 1979	-	8,178	1,14 2,23 1,238 1,388	13,583	3,5,2	200	1,5017	7,403	18,465 4,105 1,336 7,301	1,1,5	7,50° 1,415 11,439 11,494	11,818	5, 50% r	.1, %,	· 1 · ·	1 4 , 4
	al adjustm		Last 4 months	Aug 1479		62.2	1, '5+ 1,112 010 2,041 1,472	15,134	3,711	1 2	3,021 1,705 1,032	8,193	19, 144 5, 007 7, 423 1, 564 7, 779	10.0	2,745	12,.26	1,354	11, 000	5,8004	lora, or
	Without season	hls	Las	or pt.	4	4,873	1,74	15,758	5, 1, 1	735	5,346 1,917 1,196	7	20,023 4,187 2,394 1,7394 8,1007	1,035	1,502 1,135 1,877	15,172	5,44.7	1.,571	3,0,0	In, ett.
	Witi	Monthly		June 1980	nned	10,500	1,839	14,304	4,353	000	3,574	7,5.1	3,025 1,417 8,025 1,417 8,689	1,000,4	1.55 A. 1.	13,263	3,846	14,624	3,003	11,474
			months	July 1980	INDUSTRIES Continued	8,971	1,+91 1, 23 5,64 2,749 1,641	12,453	3,923	258	3,091 1,734 1,203	÷ [0, 4, 6	19, 743 4,003 2,009 1,549 7,831	3,347	5,041 5,048 1,193 1,720	11,825	3,384	14,104	3,281	16,18
			Last 4	Auk. 1980ř	AND INDUSTR	10,052	1,640 1,152 754 3,005 1,811	111,759	3,635	94 PD	3,541 1,475 1,585	7,572	21,487 5,277 2,976 1,627 1,060	1,21b	5,973 2,7-40 1,292 1,891	12,758	3,413	14,396	5,775	11,126
ars)				Sept.	CROUPS,	10,441	1,793 1,237 906 3,203 1,878	16,05×	4,911	823	3,783 2,138 1,448	7 m	22,474 5,378 2,670 1,679	1.125 4,228	6,124 2,805 1,390 1,949	14,071	+,494	14,317	3,782	11,731
(Millions of dollars			900	1980	INDUSTRY	30,858	2,584	45, U63	11,714	2,455	10,023 5,047 4,021	[44,64]	14,05s 14,05s 7,512 4,997	12,031	17,787	41,144	14,553	45,163	11,5+1	31,814
(Millio		*uarterly	=	1980		29,819	5,028 3,050 1,886 4,256 5,499	44,533	12,550	65*17	5,734	20,755	54,809 13,5m 7,739 1,377 2,330	3,344	17,239 8,217 3,867 5,155	38,234	15,154	+3,7-4	10,236	31,268
		3 .	1	1980	1	30,72+	5,141 3,290 2,229 9,376 5,510	26,228	12,944	2,+52	3,445	21, 44	64, x44 15, 576 8,169 5,025 27,115	3,530	17,741 8,306 3,867 5,568	39,555	13,164	47,514	11,045	31,928
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	Seasonally	nly	July	1980		10,067	1,697 1,025 725 3,110	14,432	4,202	788	3,375 1,922 1,273	7,245	20,898 4,360 2,701 1,081 8,005	1,205	5,845 2,744 1,286 1,815	12,864	3,870	13,960	1,511	10,719
		Monthly	· · · · ·	1980		19,283	1,697 1,115 731 3,109	14,304	5,863	85e	3,536 2,021 1,343	660,7	22,110 5,272 2,878 1,094 9,235	3,93%	5,744 1,234 1,842	13,099	4,384	14,314	5,753	10,380
			4400	1980p		10,374	1,747	15,244	4,824	808	3,529	7,630	21, 886 5,444 2,540 1,650	1,133	6,102 2,844 1,347 1,911	13,587	3,422	14,242	3,081	10,823
			Industry			Electrical machinery, total	distribution equipment and industrial apparatus. Household appliances. Radio and TV. Communication equipment.	Transportation equipment, total	Aircraft, missiles, and parts	Shipbuilding and military tank vehicles	Instruments and related products, total	All other durable goods industries	Nondurable goods industrics; foot and kindred products, forth	Fobacco products	Paper and allied products, fortal proper, etc. Paper, etc. Paperboard containers. All other paper containers.	Chemicals and allied products, total	Industrial chemicals, .vccpt pigments	Petroleum and coal products	Author and plastics projucts,	Wil other nondurable goods industries
			SIC		,	361.2	365	37	372,6	37.31	381-4	325	20 201 208 207 203-6,9	13 13	26 205 205 205	20 61	283,4	2.0	ą :	272

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Subgests and incorporate the totals for the period and are adjusted for traditional and calendar-month variations; unfilled orders are incorporate, as in the ord in the period and are adjusted to the subgineering or extensions.

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Table 2. --VALLE OF VANUEACTI RERS VEW ORDERS FOR INDUSTRY CROUPS, VARKIT CATHGREES AND SUPPLIABINITARY STREES-CONTINUED

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		Sept. 1980P	^{3ug} ,	1980	June 1980	1980	1980	1980	1990P	Nug.	71nL 1980	June 1980	-opt.	Nuc. 1973	1979	June 1979	u861	1,479
								INDUSTR	NIMSTRY GROUPS AND INDUSTRIES Continued	M INDUSTR	HESConti	panu						1
6.6	Hectrical machinery, total	066'6	10,790	9,677	9,941	30,457	30,700	33,175	10,658	10,534	6,883	10,574	10, 402	3,651	ς; ; ; τ	10,300	34,34+	46,514
	distribution equipment and	1 608	1.670	1,690	1.703	846.4	5, 369	5,485	1,641	1,619	1,489	1,784	1,736	1,730	1,453	1,987	15,023	15,695
563	Household appliances	1,240	1,173	1,034	1,063	3,437	3,073	3,540	1,298	1,204	1,030	1,165	1,133	1,054	1,047	1,180	10,173	6,586
59,	Radio and TV	754	809	689	1 14 3	2,252	10,007	10.374	3.201	3,499	2,890	3,315	3,273	2.715	7.367	735	29,433	24,435
26.7	Heetronic empenents	1,641	1,694	1,620	1,721	4,955	5,276	6,044	1,712	1,642	1,435	1,851	1,670	1,722	1,596	1,790	16,514	15,476
	Transportation equipment,	17,123	13,559	16,362	12,672	47,044	44,562	48,798	18,155	10,697	14,289	13,767	18,453	13,526	14,454	13,723	137,404	168, 201
5	Aureraft, massiles, and parts	5,360	3,178	5,582	4,911	14,220	19,57+	15,549	5,424	2,791	5,731	4,904	6,143	4 + 15	, 4 K 3	5,761	100	+1014
E F	tank tenteles	1,979	1,264	824	504	4,047	2,427	2,595	1,863	9462	909	673	766	200	F 14	· 67	3, 9, 5	4, 120
à.	instruments and related	3,530	3,511	5, 317	3,245	10,358	9,779	11,036	3,728	5,545	3,038	3,587	5, 187	1,117	1,477	3,400	31,027.	7,.56
402	411 toor durable 1 ods	7,479	7,011	7,207	6,541	21,697	20,325	23,457	8,101	7, 3113	h, 784	7,396	4,341	3,13	7,2411	# up *	P52,440	64,633
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		200	7	14 A 1		8,412,43	. 7, 47	1,000	5, 5, 3	. 8.11	100	-	Du. '.	8	3,0,8	1000	3,185	× .
	ž.		1 % 3 %	11,11	1,16	* 1	18.	, r , x	* * * .	2,4 2,4	1.1.1	15.75	1 7	14,461	17,844	18,321	31,.38	11,12
-	stall posteriors	8,436	8,700.	7, 8, 8	8,501	4,347	2,334	, z	E TT E	8,027		, x	8,7,8	8,771	8,573	8,570	8,373	8, 5,
÷	the state of the specific terms.	. 144	40,40	, , H	, " ; " « «	18 18 1 18 T	.8,3%	*, *, *.	. 1884	7,610	, U.,	17.7.1	4,030	, x . 11X,	-8,103	. 4,.13	, s, c.18	7 ' 405
: 71	Vacinities (A.) a vacing of the fraction of the first process of the fraction of the first process of the first pr		100 to 1	4.4	6, 10 F, 12	7 2 4	16,774	2 × 2	, 103 15,884	14,380	14, 41	16.73. 16.74	17,123 16,170	1,851	10,740	1, 43b	1.4	31
i ŝ	whilter had not equipment to the control of the con	7,451 7,283 0,166	7,783	7,931	7, 468 7, 386 7, 314	8,877 7,748 8,183	8,453	8,041	£117	22,022	7,848	7,8,4	7,336	8, 24,3 7, 54,1	4.08.2	2 . 3	8, 108	E 2 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
100	traductive of and table																	

Table 1. --VALKE OF NANTFACTURERS' UNFILLED ORDERS FOR INDUSTRY CROUPS, MARKET (ATFORMER AND SUPPLEMENTARY SERIES -- Continued

			Jane 1974		11,725	7,745	, ,	15,221	5	27,481	11,41.	ž.	3,4461
		t he few, o' with t	- Tel		13,468	7,225	* X Z T	15,300	5		10, 465	5,73	3,+10,
101.		, vaffa.	Muh. 1974	1	14,589	5 mg.	177	1,, 18.3		14,447	10,429	*5°*.	5,544
a. sditest	al.	4 1	Srp*. 1479		18,114	7,414	. ,	15,410	9	72,371): , th	544.5	E ST T T T T T T T T T T T T T T T T T T
without scassma, idoust for	Monthly		fune	•	38,48	7,488	+24	12,047	2 2 2	7,123	11,332	, 541	5,144 3,4HS
0.113	1	-outh-	fulv 1980		38,597	7,956	501	15,148	200	38,937	11,352	P. 389	3, 344
		last a contb.	Aug. 1980'r	por	39,058	7,465	5.26	18,981	1118 747	58,093	11,345	5,242	3,274
			Sept.	IMDUSTRIES Continued	35,740	7,814	6+43	17,640	111, 894	89,111	12,585	5,237	3, 455
			1379		32,518	6,914	564	15,113.	X X	460°E4	10, 424	6.45	3,180
,		;	1479	GROUPS AND	33,845	7,254	5 3 3	15,489	46. 76×	19,254	To, Ses	5,42*	3,361
	Quarterly		1979	INDUSTRY	34,858	7,418	594	15, 40,	27	73,098	11,14	5,83.	1,247
p	9	11.0	1979		35,631	7,531			100 300.	77,929	11,297	5,985	3, 317
Seas maily adjusted		-	1480		37,944	7,457	395	17,592	105 64.3	4 4 7	11,257	1 637	1,514,
Seas ma		Tumb	1980		38,830	8,000	416	18, 355	10.6 611	88, 427	11,205	7:	3 × 4.
	١٨		1940		38,437	7,992	380	18,252	131 062	40,247	11,341	11,237	5,047
	Monthly	-	1920r		38, 447	7,954	458	18,864	110 297	K4, 56.2	11,529	4,211	1,019
		***************************************	1980P		38,564	7,826	055	10,238	112 118	760,04	12,×00	6,214	2,864
		Industry group			Flectrical machinery, 1 stal Flectrical transmission and	Indistribilion of ilpment and indistribilion apparatis,		Fleetranic capacats	Transportation of aprent,	Ameratt testles and parts.	Shipharlang and allitary tank vehicles.	Instruments and acladed	All other totable goids an lastities.
		SIC			100	203	365	357	<u>.</u>	6.5.5	156.	ť.	22

Shipments and mea orders are the totals for the part of and are advanted in tradingenay and calculations untilled enters and report at the critical means are at the critical means are at the critical means and a calculation of the part of the par Revised.

day a calendary onth variations. The separate industry categories as follows

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Applial goods understree - The capital goods industries serves is comparable to the processes Producers' capital cooks and the horizont of the processes and compared and equipment and equipment and equipment and equipment and equipment and equipment of the processes and equipment a

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Ξ.	In to tax		, way	· Viri	1.6.		,	Ē	- 11			, l	:	1	e 1		a	
			144	1 48 4	\$, , ,					 11		- :::	T 6	Sepr.	y'.	* (
							. 13	The second	1181	3		· F '						
	All, samificationary Intertion	1411, 40.	7 Jan. 17	- - - ;	i.		· · · · · · · · · · · · · · · · · · ·	-				. ,	. :		ا د ق	;		x
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	antified of transmission	,68,94	26.4, 643.			· · · · · · · · · · · · · · · · · · ·		1		7	*	;	1				· · · · · · · · · · · · · · · · · · ·	; ;
	brialle o de industrices, totali,	.110,775	141, 41	1, , , , ,	1	111,121	, , , , , , , , , , , , , , , , , , ,	,		1. 1.	<i>i</i>		, see	ŕ			,	1
	Durathe good with untilized	.11.	1.4, 30		14.7, 1			1	-	1	Y	127	1		;	i.	4.4.3	
	Nondination good imbastron ,	11,4,21		A. S. S. S. S. S. S. S. S. S. S. S. S. S.	:	7			3.	3,	; ;	÷	177	-	;	7	: :	
	Northwell , of athlies	16,764		14,16.8	,	×	:		11.118		.5. 7.	7	,		2	17, 1.	ź.	:
								W. 43.T (A	É	Albertal and	SAW A BE	·						
	Market afreguence	17.867		14,008	114, 46	r	v .	- :	1.	· ;	- - - - - - - - - - - - - - - - - - -				 3 3	, ·	= = = = = = = = = = = = = = = = = = = =	7
	Consucer stapile	1, 524	10,478	11,014 FIG. 11	, , , , , , , , , , , , , , , , , , ,	7.	-	2.	2	F 9 .). 33		;	, , , , , , , , , , , , , , , , , , ,			F 1	
	Aget, except after two	6 1, 52 1	4.7 to 1.7 17.4.2	The state of the s	10,78	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-, -	::	7. 1	÷ ;	1 : 1 :		12.11	11.	71.0	E 7.	
	Con truction aterials, up plotte, and externocatation	.4,774	11,2.1	11, 4. 1	14, 14	23,154	14,000	ž.	3", 2.1.		1.1,43.4	1.	;	14, 98h	13, 48.3	, ,	, , , , , , , , , , , , , , , , , , ,	T2
		16,617	100,711	11, 141	2		**. 111	41.67	* *** *** **	* - · ·	3 4 4	~ ;	ŷ,	12,53	č., 7%	F 1 : 3 F	7 7 7	7
	Spire effort effe from closed demante gross rudge tites	220'5	1,1	2,143	1.25	11.	, . S	*	i,	Ş.	2,5		* F * ;	× 1	£ 1	£ 7	4, 1844 20 - C.	4,130
	Capital good, industries	17,432	65,774	[92,09	1. 180	67, 70.	7 7 7 7	- 1 446 - 1 44	5 8, P. 8 2		60, +33		7	1,1	196.	1 1 2 2	2007	.3.46.
	De Tense.	11.370	111,177	KI +	ž,	7	· · · · · · ·	r.	7	\$	11.347	n, 48.	11, 145	14,738 I	R, 540	7 5 7 r	4,1×2	5,059
								IND	STEA CRAINS	S AND INDISTIBLES	STRIBS			,	Ì	1		
3 %	Intrable goods industries Stone, elay, and glass products	2,44,1	5,443	6.00	7, 14, 54, 2	5, 48.7	1,664	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	, sed	\$ 15.	- : !	5, 425		6,145	4,5	5,380	3.7	40.4
33	Privary cetals, total	20,164	20,588	20,841	20,884	13, 187	19,803	12, 23	18,618 10,412	17,852	5	20,480	20,811	20,831	14,445	15 982	19, 54	13,535
155-0,	Vonterrous and other primary metals	n,	7,804	, ·	7,741	7,848	7,563	7,256	, 316,4	12, 1,4	1,634	, 718	7,465	1,795.	7,008	7,033	7,070	n 963
34	Jabricated metal prod., total.	806 8.	18,980	13,134	19,451	19,654	19,432	18,716	18,512	17,751	-	110,011	14,245	14,630	13, 142	X X	14,532	13, 88.8
ž	drums	977	1, 500	1,370	1,434	1,502	1,554	1,342	1. 55.	1,	F-51-1-4	263	1,434	1,00	1,253	2	1.4.7	1,52
351	Machiners, except electrical, total, Engines and turbines.	39,194	19,255	3,547	38, 440	37,509	36, 5,701	35,527	34,353	2,490	38,342	2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	39,070	39,144	34,974	34,644	34,317	74.23
35.5	Fai machiner, and equip ent Construction, mining, and	3,4,33	, 253	3,214	3,195	3,114	3,108	2,913	2,828	RF4".	3.0.1	1,136	3,175	3,23	7	011.	7. / 20	100
354	dling equachinery	2, 284	8,659	8,720	8,739	8,308 2,43h 3,6/1	8,150 2,314 3,050	8,099 2,238 3,520,	7,963 2,184 3,322	7,457	3,687	8,503 2,583 3,724	3,737	8,704 2,565 3,766	2,213	3,454	2,1453	3,184
Sce	touthotes at end of table											-						

							(Millions	(Millions of dollars,	()									
					Seasonally	ly adjusted							Without	it seasonal	adjustmen	nt.l		
			Monthly	hlv			nò	Quarterly						Monthly	A1			
SIC	Industry	4		T. Carlo	Lower		14					Last 4 mor	months		Last	4 months (a	a vear ago)	
		1980p	1480	1980	1980	1980	1979	1979	1979	1479	Sept,	Aug.,	Alri Alri	rune S	Sept.	Aug.	tuly 1979	lune 1979
					1			INDUSTRY (GROUPS AND	INDISTRIES		,		-		-		
361,2	Electrical machinery, total	22,086	22,012	22,079	21,861	21,420	20,598	14,462	18,689	18, 148	, T	22,052	22,21×	23,248	14,2 7	14,11	14,124	0,
	and distribution equipment and industrial apparatus	3,961	3,477	4,033	3,982	3,868	3,770	3,637	3,514		5,45.4	2.34.0	4,017	×10.7	3,586	3,554	3, 5, 5	į,
36.5	Radio and TV	1,913	1,902	1,095	1,998	2,161	2,116	970	1,955	1,021	1.840	1,894	1,979	7,121	474	1,024	1 073	1 5 1
367	Electronic components	3,386	3,332	3,374	3,386	1,240	3,049 [2,447	2,834		3,383	1,395	3,342	1,423	2,494	2,461	x y	6, 4
371	Transportation equipment,	33,895	33,505	32,951	32,688	51,447	29,91h 8,012	28,572	8,337		31,878	13,853	37,4,28	7,261	28, 584	24. 34.5 24.5 .5	124.5	8 4 5
372,6	Aureraft, wissiles, and	10. 64	21, 755	21.214	20,584	77077	17.437	77	14.6531		22.034	21.94)	11, 112	20,483	15,539	7 7	14,74	
3731	Shipbuilding and allitary tank vehicles	2,4.2	2,426	2,362	2,3%0	2,130	2,165	2,034	1,714		2,47,	12,401	1.481	2,403	2,0%1	2,021	1,417	-
38 381-4 386	Instruments and related products, total seconds Seconfile and engineering. Photographic goods	5,897	8,404 5,940 2,027	8,425; 5,944; 2,049	8,393 5,854 2,083	5,597	7,765 5,291 1,986	7,471 5,931 1,441	7,317	7,004 4,540 1,460	7,850	5,412 5,910	8,416 5,132	8,525	7,438	7,502 4,919 2,076	2,104	2 0 cb
7. S. S.	All other durable goods industries	.2,280	12,344	12,027	12,046	12,181	11,935	11,700	11,594	11,.67	7	12,7 %	14, 141	12,124	11,015	9	.1, 5.0	11 + 72
3.0	9	24,877	20,867	20,830	20,272	20,431	20,347	14,780	18,457	¥ 11.	763	20, 193	14,469	19,239	14, 733	14, 400	\$, r
5,8,6	Meat product Bavanages	3,659	3,592	3,772	1,781	1,851	3,845	1,757	3,672	1,548	3,634	3,562	3,617	3,773	1,245	1,508	- C - T	; 7 ; ; - ;
203-1,9	÷	3 708	11,786	11,674	3,529	3,505	3,503	3,762	3,008	5, 594	5.58b	11,751	1,213	3,370	3,533	3,457	F 12	₹. ± • ± • ±
-1	Towtile mill products	5,378	5,850	5,940	t, 085	470.4	5,344	5, 4, 5	1,00,7	5,714	2,782	5, 8, 6	0.440	9,141	, r)8	. 713	7	, 2
26 261-3 265 264	Paper and allied products, rotal Blp, paper, etc. Palp, paper, etc. Paperboard containers.	7,595 2,791 1,406 2,896	7,550 2,724 1,917 2,409	7,442	7,548 2,558 2,030 2,912	7,746	6, 745 2, 314 1, 404 :	24.51 25.51 25.51 25.51	1,27,4	7 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7, 476	1		1777 1777 1711	10.10		555	îi de î
20,	Chemicals and alined products, total,	18,488	18,517	13,364	19,530	18,577	16,482	16,442	15,91n	15,437	3.7.0	14, 133	14,767	18,979			12.1	P. Arbay
283,4	Industrial chemicals, ex- cept pigments Prags, scap, and tolleties.	5,845	5,442	5,749	5,453	5, 51	5,333	4,478	4,487	4,537	3,845	\$ 7 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	4,230	5,798		4	700	4 584 5 204
67 C	Potroleum and enal product	8,93,	8,411	9,885	8,765	r'	185,4	7, 34.1	5.405	5,143	., 475	r . 0	C. T.	4, 55g	-	†	3 1.36	24.7
	n, c, c	-, 38.	4, 20	, 764	4,817		4,773	C 7 7	228.4	ř.	4,286	, t , t	4, 70%	4.42	ć. T	7	T T	,
១១៩	Wil ther Bendarable goods	+2,764	11,740	12,782	12,832	12,373	069,111	11,854	11,638	11,514		13,1,	1	13,471	:	12.131	12, 334	2.2.5
Ppro	Perchanary, Revised,			1	*	1	1											

"Supported and no veters are the reals for the period and are adjusted for trading-day and salendar-conth variations, unfilled orders and inventions are as a record of the separate industry categories as a fallows. The supportings if the separate industry categories as a fallows.

Hissobild durable goods industries - Household turniture Litchen articles and porticey, contloys, land tolks, and bardoare household angula goods and IV portial to goods, was not all the first and portices.

⁹ Programs (code). The apptal code indictive verte, is comparable to the previous Producer Capital Goods and the Telenes Trelates told sites at a state of the previous medium recognishes. The apptal code states are constructed in the state of the previous medium recognishes and the previous medium recognishes and the producer of the previous medium recognishes and an appropriate and an appropriate and appropriate and appropriate and appropriate and appropriate and appropriate and appropriate and appropriate and appropriate and appropriate and appropriate and appropriate appropriate and appropriate and appropriate appropriate and appropriate and appropriate appropriate and appropriate

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5,140 5,140 1,154 in Edinal III howal 75, 36 2, 55 3, 55 4, 75 4, 27 4 77-4-1 10-1 10-1 7, 1125 1, 124 1 2,557 1,102 1,867 1,867 1,867 1,867 1,967 1,052 1,053 7,145 5,513, 4,000 4,396 4,396 4,396 4,396 5,741 4,027 3,856 ourable goods Industries, to Britany metals.
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(Based on seasonally adjusted data)

Item and industry group	Me	onth-to-mont	h	Average monthly rates of change				Average, 1975-1979		
		July- August 1980 ^r	June-		3 months		12 months			
rten and moustry group	September 1980 ^p		July 1980	June · September 1980	May- August 1980	February- May 1980	cept. 1979- Srpt 1980)	Average rise	Average decline	
Shipments:										
All manufacturing industries	+3.4	+0.7	+2.9	+2.3	+1.2	-2.5	+(),	+1.6	-1.2	
Durable goods industries	+5.8	-0.7	+5.1	+3.3	+1.2	4.3	+0.2	+1.9	-1.9	
Nondurable goods industries	+1.1	+2.0	+0.9	+1.3	+1.2	-0.8	+(1, 7	+6	-0.7	
Inventories:										
All manufacturing industries	+0.4	0.2	+0.2	+0.1	+0.0	+1.2	+0.8	+0.7	-0.3	
New orders:										
All manufacturing industries	+4.8	-0.4	tn.1	+3.5	-1.8	-3.5	+(), 3	+1.9	-1.2	
Durable goods industries	+9.0	-3.5	+11.7	+5.5	+2.1	6.0	+0.0	+2.8	-2.0	
Nondurable goods industrie	*0.8	+2.8	+1.0	+1.6	+1.5	0.9	+0.7	+1.5	-0.7	
Unfilled orders:										
Durable goods industries	+0.7	-0.2	+ 1.6	+0.4	-0.2	0.0	+0,4	+1.2	-0.9	

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

and the control of th										
Industry group		Inventoriesshipments ratio				Unfilled ordershipments ratio ¹ (months' backlog)				
	September 1980	August 1980	July 1980	June 1980	September 1980	August 1980	July 1980	June 1980		
All manufacturing industries	1.61	1.66	1.68	1.72	3.57	3.75	3.71	3.82		
Durable goods industries	2.11	2.24	2.23	2.32	4.26	4.51	4,48	4,60		
Stone, clay, and glass products	1.38	1.52	1.50	1,62	0,66	0.75	0.74	0.79		
Primary metals	1.78	1.94	2.03	2.13	2.45	2.50	2.50	2.57		
Fabricated metals	2.00	2.16	2.21	2.31	3.15	3.46	3.55	3.67		
Machinery, except electrical	2.74	2.89	2.82	2.82	4.25	4.51	4.43	4.44		
Electrical machinery	2.13	2.14	2.19	2.21	3.72	3.79	3.82	3.92		
Transportation equipment	2.22	2.34	2.24	2.52	12.55	13.87	12.94	14.02		
Instruments and related products	2.35	2.38	2.50	2.51	1.76	1.76	1.85	1.88		
Nondurable goods industries	1.11	1.11	1.14	1.15	0.70	0.72	0.68	0.71		
Food and kindred products	1.00	0.94	1.00	0.98	(X)	(7)	(7)	(X)		
Tobacco products	3.27	3.00	3.00	3.49	(x)	(7)	(x)	(X)		
Textile mill products	1.48	1.49	1.48	1.54	(NA)	(NA)	(NA)	(NA)		
Paper and allied products	1.24	1.30	1.27	1.32	(NA)	(NA)	(NA)	(NA)		
Chemicals and allied products	1.36	1.41	1.47	1.55	(X)	(7)	(7)	(X)		
Petroleum and coal products	0.63	0.62	0.64	0.59	(X)	(X)	(7)	(X)		
Rubber and plastics products, n.e.c	1.19	1.20	1.32	1.41	(X)	(7)	(X)	(7)		

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums. farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

CURRENT CONSTRUCTION REPORTS

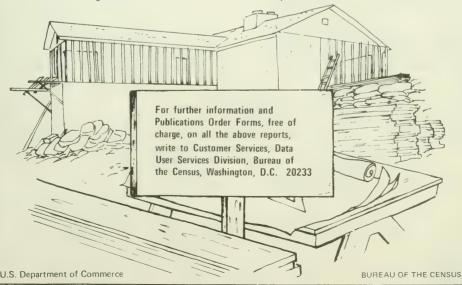
CONSTRUCTION accounts for approximately 11 percent of the gross national product!

To assist industry representatives, research specialists, market analysts, and government officials interested in this vital segment of the Nation's economy, the Bureau of the Census issues monthly, quarterly, and annual reports on the value of new construction put in place, building permits, housing starts, housing completions, housing sales, alterations and repairs and demolition of residential structures.

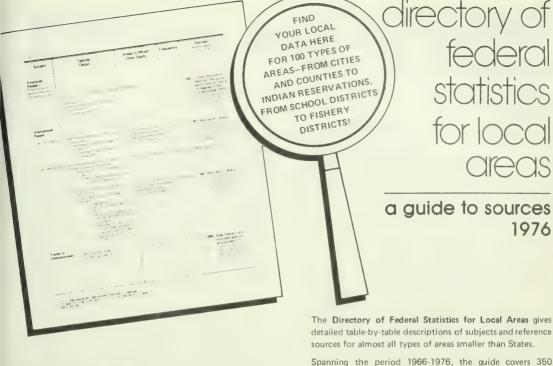
Current Construction Reports include:

C20 - Housing Starts

- C21 New Residential Construction in Selected Standard Metropolitan Statistical Areas
- C22 Housing Completions
- C25 New One-Family Houses Sold and for Sale
- C27 Price Index of New One-Family Houses Sold
- C30 Value of New Construction Put in Place
- C40 Housing Authorized by Building Permits and Public Contracts
- C45 Permits Issued for Demolition of Residential Structures in Selected Cities
- C50 Expenditures on Residential Additions, Alterations, Maintenance and Repairs, and Replacements







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Manufacturers' Shipments, Inventories, and Orders

FEB 10

OCTOBER 1980

M3-1(80)-10

For Wire Transmission 3:00 P. M. Thursday, December 4, 1980

(All figures in text below are in seasonally adjusted dollars.)

New orders for manufactured goods in October increased \$2.7 billion or 1.7 percent from September, to \$158.4 billion the Department of Commerce, Bureau of the Census, reported today. The durable goods industries showed the same percentage increase for the month, going up \$1.4 billion to \$80.7 billion. Excluding the defense category, new orders for durable goods were up \$3.8 billion or 5.3 percent. Durable goods orders in September and October were heavily influenced by the month-to-month movements in the defense ¹ category. In September, defense orders were up \$1.9 billion or 43 percent to \$6.5 billion, while in October they dropped to \$4.0 billion, a decline of \$2.5 billion or 38 percent.

New orders for primary metals in October increased \$1.3 billion or 10.2 percent to \$13.8 billion. Within the primary metals category, steel orders, which were valued at \$7.2 billion, accounted for a \$0.9 billion increase. Since May, when steel orders dropped to \$3.4 billion, orders have been steadily increasing at an average rate of 13 percent per month. Fabricated metal producers reported a \$1.1 billion or 12.1 percent increase in October new orders. New orders for electrical machinery in October were also up \$1.1 billion, an 11.5 percent increase over the September volume of \$10.0 billion.

The only major declines in new orders came from the transportation equipment industries where orders were down in total \$2.9 billion or 16.3 percent to \$15.0 billion. Without the declines in defense orders for aircraft and ships, new orders for transportation equipment had a 1.7 percent increase. New orders for the nondefense capital goods industries as a group decreased \$0.6 billion or 2.8 percent to \$20.7 billion, with declines in aircraft and shipbuilding more than offsetting increases in the machinery categories.

Shipments of manufactured products in October were valued at \$156.9 billion, up \$4.2 billion or 2.7 percent from September. Most of the durable goods industries reported increases, the largest of which were in motor vehicles, up \$1.1 billion or 12.8 percent to \$9.9 billion; and steel, up \$0.6 billion or 10.7 percent to \$5.8 billion. Shipments in the household durable goods category increased \$0.2 billion or 3.9 percent to \$5.2 billion. After declining during the first half of 1980 to a low of \$4.6 billion in June, the volume of shipments of household durables has increased 3 of the last 4 months.

Shipments by nondurable goods manufacturers increased \$1.3 billion or 1.8 percent to \$77.5 billion. Chemical shipments which were up \$0.7 billion or 5.1 percent, and petroleum shipments which were up \$0.5 billion or 3.8 percent accounted for most of the increase. The value of shipments of food products was down \$0.2 billion or 1.1 percent to \$21.9 billion.

The value of manufacturers' unfilled orders increased to \$287.4 billion in October, up \$1.4 billion or 0.5 percent. An increase of \$2.0 billion in primary metal orders backlogs, \$1.4 billion of which was for steel and \$0.6 billion for nonferrous metals, more than offset the decline in transportation equipment backlog of \$1.3 billion or 1.2 percent.

The book value of manufacturers' inventories was \$243.3 billion in October. This level has been virtually unchanged for the last 5 months, as May inventories were valued at \$243.4 billion. The inventory to shipments ratio of 1.55 for October has been declining since June when the ratio was 1.72.

For durable goods manufacturers, motor vehicles and parts inventories declined \$0.3 billion or 3.5 percent to \$7.1 billion, steel inventories decreased \$0.2 billion or 1.7 percent to \$10.9 billion, and nonelectrical machinery inventories were down \$0.3 billion, 0.8 percent to \$38.8 billion. The largest decline in nondurable goods inventories was in petroleum products, down \$0.5 billion or 5.5 percent.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for November is scheduled for release on December 19, 1980 and the full report is scheduled for release on December 31, 1980.

Government's fiscal year from a July 1 through June 30 basis to an October 1 through September 30 basis in 1976. These factors were introduced in the July 1977 data and will continue to be used until sufficient data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the industry.

²Motor vehicle assembly plants close down for retooling generally during July, August, and September, for the forthcoming model year. Due to year to year variations in the timing of this model changeover period, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. Comparisons between the October value and the three month average shown for September do not accurately reflect the relative month to month changes. The seasonal factor used for October is based on data through September, 1980. The seasonally unadjusted data as published are not subject to any special estimating procedure.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

¹ For all of the defense capital goods series, modified seasonal adjustment factors were used to account for the change in the Federal

2

				Season	Seasonally affisted	4				1		101	seasonall	Not seasonally adjusted				
			Monthly	ly .		-	uarterly	,				Vonte.ly						59.55
SIC	Inlustry	100.3	-	Aug.	dule					12-10	-onth.		Lust	* ronths	а уевг адо			
		1.48t P	L X	1.48tif	1 +×	4	÷	L ,		100	Total	127	, , , , , , , , , , , , , , , , , , ,	Sept.	lug.	hilv 1979	Ř.	7,61
	TOTALS																	
	All manufacturing industries	156,926	152,759	140, 541	1 + + 1, 1, 1, 1	1991 1 100	2	1	162, 19 1		1	. 4,45	1.7.1	: : : :	141.5	131,005 1	1,489,650 1	1409,157
	Authoring industries excluding transportation	140,644	1.87,425	132,354	150,700	ol. , co,	121, 382	, , , , , , , , , , , , , , , , , , ,	144,407	7	135,000	1	144, 151	* F K 12	127,234	118, 22 1	1,342,167	,243,865
	Manufacturing industries with unfilled orders	81,535	80,203	15,221	******	, 10,524			44,53)		4	7		7.	3	n8, 498	780,204	744,694
	Durable goods industries	79, 391	16,500	12, 3	73, 40	1,11.7	. M., No.	233, 34	82,620	r. 814	7 1		- *****	7 77	71,360	11.7 mph	747,885	76, '77,
	Durable goods with unfilled	62,909	114,635	, 21s	£ £ 2	180,16	: ::	; e	67,886	-1			1 8, 64.5	* 2, 433	14, B.13	54,427	426,887	613,287
	Nondurable goods industries	77,535	0.1.0	,	1,1 %	.75. 41			100 " FL	-	11.111	, 5.4.	;	1,1,1	1010164	481.59	741,765	556,333
	Nondurable goods with unfilled	15,626	1.,111.	15,065	15,55	581.0	,1 1		11, 464	J. 1400	15,373	14.14	1,,	11,000	14,574	13,541	153,317	141,407
	MARKET CATECORIES												_				Ī	
	Home goods and apparel	11,583	11,186 28,573	10,550 28,150	10 May 25	15, 3, 10	1.	2 7	22,457	2 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	28,119	2	12,184	25, 528	11, 721	24,2015	111,402,268,236	246,504
	Equipment and defense products, except automotive	22,699	23,100	1,25,1	10,332	1,1			13,104	13,714	- T	14, 45 x	13, 300	20,871 12,00°	14,370	18,00.5	218,0h3 105,241	195,544
	Construction materials, supplies, and intermediate products	13,278	12,463	11, 15	11,811	3 - 1 - 1 - 1	, T.	1,	13,406,	ž	12, 34	11,138	15,032	13,480	15,452	12,304	122,291	124,840
	Other materials, supplies, and intermediate products	69,220	nh, 7.5n	64, 580	181181	1 11. 11.	141,441	181	104,491	×.	× × × ×	r.	14,378	13,723	.1,371	17,237	664,417	844, 100
	SUPPLEMENTARY SERIES?														-	-		
	Household durable goods indus- irles. Copital goods industries. Nonde(ense.	5,171 25,424 21,681 3,743	21,677	3,3%	1, 13 to 1, 15 to 1,	2,000	27.7		5,736 25,875 21,814 3,761	1245		11.7.11.11.11.11.11.11.11.11.11.11.11.11	5, 48, 25,410 3,081	23,261 23,463 20,413 3,350	13,775,5	1, 23.2 1, 13.2 1, 13.	48,943 244,322 210,270 34,052	46,597 221,168 192,167 29,001
	INDUSTRY GROUPS AND INDUSTRIES							-	-	-								
32 322 33 331	Durable goods industries Stone, clay, and glass products Glass containers Primary metds Blast furnaces, steel mills	4,296 399 11,880 5,784	4,288 425 11,322 5,227	3,930 390 10,604 4,642	409, 409, 10, 258	12,24 1,224 12,184 14,221	11,550	12, sage 1, 075 18, 190 17, 490	4,651 396. 11,861 5,610.	2, 14 2, 14 1, 14	10,253	386 9,415 4,117	4,352 360 12,073 4,754	4,343 352 11,907 5,823	4,386 550 11,482 5,712	4,016 311 10,955 5,003	41,221 3,859 115,248 52,902	40,477 3,325 118,220 58,415
333-9	Nonferrous and other primary metals.	5,018	9,432	5,022 8,801	5,0907	15,135	14,074	28,700	5,104	5,145	4,810	4,500s	5,131	4,438	4,726	4,381	51,795	48,442 91,825
35 35 352	metal cans, Darreas, and Artums. Machinery, except electrical. Empires and turbines. Farm machinery and equipment.	842 14,639 1,171 1,203	789 14,594 1,027	785 13,580 1,080	786 13,945 1,204 1,043	5, 3su 3,247 5,283	2,387 40,734 5,266 3,076	3,282	818 14,720 1,102 1,279	14,903 1,990 1,105	+ + + + + + + + + + + + + + + + + + +	873 12,680 1487 894	33,911 1,163 1,222	13,881	988 12,783 1,046 1,144	894 12,039 883 1,038	8,458 140,294 11,086 11,105	8,675 131,426 11,181 11,446
353 354 356	Construction, mining, and material handling equipment. Metalworking matchinery General industrial matchinery.	2,543	2,513	2,598 860 1,161	2,547 817 1,175	2,584	7,676	X,494	2,561	2,558	, 518 782 1,126	714	2,799 R45 1,265	2,890	2,559	2,549 703 981	26,708 8,834 12,046	27,032 7,810 11,003
															-	-		

							(Millions	of dollars	8)									
				Seasonally	nally adjusted	ed						Not	seasonall;	seasonally adjusted				
			Monthly	thly			Quarterly					Monthly	ly .				Year to	date
SIC	Industry	÷ 6	000	Anter	.Tola	111	1.1			Last 4 mc	months		Last	Last 4 months	a year ago		000	
		1980p	1980r	1980r	1980	1980	1980	1980	Oct. 1980P	Sept, 1980 ^r	Aug. 1980 ^F	July 1980	0ct. 1979	Sept. 1979	Aug. 1979	July 1979	0061	F) 6
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
36	Electrical machinery	10,778	10,392	10,283	10,067	30,742	29,819	30,858	11,261	10,955	10,062	8,971	062'6	9,877	9,029	8,178	102,095	91,379
363	distribution equipment and industrial apparatus		1,748	1,697	1,697	5,142	5,028	5,358	1,786	1,794	1,640	1,491	1,720	1,745	1,534	1,465	17,419	16,685
365	Radio and TV		3,199	3,109	3,110	2,212	1,886	2,022	3,229	3,246	3,005	2,749	2,769	2,839	5,641	2,278	6,784	26,163
367	Electronic components	1,887	1,792	1,903	1,823	5,518	5,499	5,339	1,974	1,887	1,811	1,641	1,578	1,612	1,472	13,583	18,235	14,700
371	Motor vehicles and parts		8,746	8,641	8,856	26,243	22,722	28,039	711,114	7,3/1	3 635	3 423	3 607	3.767	3,731	3,522	67,322	36.071
37.31	Shipbuilding and military	4, 693	710'5	2,000	707'5	12,737	12,330	11,114	0 60 6 4	7	000,0	572.15	0001	0.10	1000	77610	41,000	100
3795	tank vehicles	687	815	856	788	2,459	2,459	2,655	147	830	800	758	829	735	704	- 82	8,101	6,984
381-4	Scientific and engineering	3,627 2,047 1.415	2,552	3,536	3,375	10,463	9,944	10,623	3,779 2,090 1,497	3,807	3,541	1,734	3,242	3,346	3,021	2,765	34,561 19,877 12,914	29,761
25 39	All other durable goods industries	7,968	7,652	7,039	7,245	21,936	20,753	23,661	8,506	8,371	7,572	6,614	8 2 8 8 8 8 8	965.8	8,193	7,053	74,812	76,505
20	Nondurable goods industries: Food and kindred products		22,178	22,110	20,898	65,186	59,809	959,09	22,788	22,790	21,987	19,843	20,883	20,623	19,544	18,863	207,556	193,958
208	Beverages	2,636	2,611	2,878	2,701	8,190	7,739	7,512	2,773	2,692	2,976	2,809	2,450	2,394	2,423	2,350	26,304	23,006
207	Fats and oils		1,695	1,694	1,681	5,070	4,377	4,997	1,768	1,726	1,627	7,831	1,667	1,736	7,779	7,301	16,191	16,098
21	Tobacco products		1,145	1,192	1,205	3,542	3,344	3,231	1,306	1,137	1,216	1,187	1,097	1,036	1,049	1,126	11,313	10,043
26	Paper and allied products		6,152	5,794	5,845	17,791	17,239	17,787	6,239	6,241	5,973	5,521	5,745	5,664	5,795	5,507	59,424	55,337
265	Pulp, paper, etc		1,347	1,234	1,286	3,867	3,867	4,105	2,944	2,855	1,292	1,193	2,685	1,235	1,288	2,413	13,326	25,090
264	All other paper products		1,909	1,842	1,815	39,566	5,155	5,400	1,862	1,996	1,891	1,720	1,735	1,877	1,853	1,959	18,167	18,029
281,6	Industrial chemicals, ex-		10,101		100471		100	1	007 641	1711	00,171	070'11	17,173	7	077,21	010'11	000100	154,133
283,4	Drugs, soap, and tolletries	4,931	4,575	3,859	3,870	13,200	13,154	14,653	4,378	4,529	3,813	3,984	3,503	3,860	4,354	4,166	37,974	43,037
30	Petroleum and coal products	14,909	14,365	14,314	13,960	42,639	43,724	43,163	14,753	14,440	14,396	14,104	12,302	12,351	11,968	11,084	144,096	107,773
	a constant bear of the	3 871	3 72%	2 753	2 611	11 088	10 035	11 57.1	0.070	000	2 775	3 301	2 07.7	3 83"	2 602	2 616	37.140	27 033

> rRevised. Pprellminary.

-Ampments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for

3,415 9,307

3.804

3,947

3,281 10,186

14,440 3,826

4,070

10,236 31,268

11,088

14,314 3,753 10,386

14,909 3,871 11,007

3,724

n.e.c. All other nondurable goods 11,128

trading-day or calendar-month variations.
The supplementary series are reported the separate industry categories as follows:
The supplementary series are reported furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalait goods, watches, and clocks, and miscella-

Capital goods industries—Comparable to the previous producers* capital goods and the defense products fold scrites lategories.

Non-defense products—Adobinery, eaceg, electrical forculating form machiners and entering and equipment and machine shops), electrical machiners and control of ship and repairing and rullroad equipment, anorant parts, and orbitance.

Defense products—Ship publisher and repairing and rullroad equipment, communication equipment, aircraft and aircraft parts, and orbitance, communication equipment, aircraft and aircraft parts, and shipbuilding. The state on separated annually in the Wal-15, "Shipments of Defense-Oriented Industries"), for the specified industries in the Wal-15, "Shipments of Defense-Oriented Industries"), for the specified industries that the Wal-15, "Shipments of Defense-Oriented Industries"), for the specified industries that the Wal-15, "Shipment and oriented Industries and Shipments of Defense-Oriented Industries and Shipments of Shipme

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Table 2. VALUE OF WANDERTURENS' NEW ORDERS FOR INDUSTRY GROUPS, WARNET CATEGORIES, AND SUPPLIMINATION SERVED.

4

				Seasor	Seasonally adjusted	pa						Not	seasonal]	seasonally adjusted1	7.			
			Nont	Monthly			quarterly					Monthly	ly			-	hi at to	7.12
SIC	Industry									Last 4 "	onths.		13.4	4 months	a vear ago			
		1980P	Sept. 1980r	Aug. 1980°	1980	111	11663	- - - - - - - - - - -	46.5.	1 881	Aue.	Tulv [sec	. 474	orpt.	19.3 19.3	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	î.	7.77
	TOTALS																	
	All manufacturing industries	158,363	155,675	147, 180	.47, 104	616.677	420,815	462,23h	166, 195	161,296	211.	136 338	3.346	130,964	140,488	132 360 1	A. K. 22.2.	1 445, 532
	excluding transportation	143,385	137, 775	133,995	.30,742	. 10, 132	376,313 [4.3,408	147, 121	141.394	13 xlh	2	134, 18	132,511	1.6, 46.	11.00.1	54.1.1.14	16180
	Manufacturing industries with unfilled orders	82,977	83,179	75, 758	77, 471	230,418	218,33n	247 374	2×,): 1.4	A 45 A 5 4		7	41, 172	80 230	74, 51.	Park. 2.3	11.	781, 259
	Durable goods industries	80,738	19,375	72, 239	74,228	225,830	206, 198	241, 134	26, 38	8.,47	. 8, 83,	161	4	18,498	71,203	1,926.	158,709	780, 271
	Orders,	67,756	67,300	60,388	62,372	190,061	174,596	201,058	11,565	48,328	,8,762	36,437	6. L	54,882	14,639	. 187	637,711	638,840
	Nondurable goods industries	77,675	76,302	74,951	72,876	224, 129	214,617	222 222	74,746	78,820	7 , 28.7	54,147	72, 80	74,986	587, 287	64,434	741,147	661,355
	orders,	15,716	15,879	*** 370	15, 09%	46,348	+3, 7401	ah. 30b	16,001	16,134	. , , 483	.3.467	120,427	17, 34B	.4,473	13,436	152,694	142.429
	orders	61,409	60, 423	180,281	37,77.	. 77, 781	170,877	17.911	13,355 .	F. 1	7 × 7	, 1, 18c	16,243	, r	.4, 310	866.01	S. A. A. R. R. R. R. R. R. R. R. R. R. R. R. R.	322,426
	MARKET CATEGORIES																	
	Home goods and apparel	11,500	11, 051 28, 569	10, 744	13,880	32, 07,	31,446	34,372	11,698	29, 830	11,657	10, 457	11.8.2	12, 12,	11 758	24, 24,	111,213	1.75,658
	Equipment and detense products, except automotive	22,787	25,049	21, 722	21,728	31, 593	66, 295	69, 51° 33, 242	13,276	16,147	19, 8.13	2, 4555 ×, ×, ×, 559	3,109	23,422	18, 996, 99, 99, 9, 253	19,256	2.8,197	213,610
	and intermediate products	13,439	12,281	11,504	11,665	35,450	33, 19h	38, 419	13,935	12,424.1	06.	11,445	13, .60	13, 288	13,527	12,342	1,1,453	125,416
	other materials, supplies, and intermediate products	70,294	67,871	64,837	65,031	197, 739	186,231	238, 757	71,114	104/16	74, 144	, 4, 83h	, e 3,	13,397	51.434	35,838	167,414	625,264
	SUPPLEMENTARY SERIES ²																	
	Household durable goods indus- tries. Capital goods industries. Nondefense.	5,073 24,655 20,677 3,978	4,830 27,731 21,273 6,458	4, 789 23, 886 19, 371 4, 315	4,728 25,974 21,608 4,365	14, 347 77, 591 62, 252 11, 339	13, 633 75, 478 61, 705 13, 773	23,414 79,756 67,929 11,627	5,497 28,279 22,539 5,770	28,540 22,081 5,464	22, 248 18, 537 3, 711	24, 214 24, 454 19, 849 4, 410	5, 080 26, 987 22, 560 4, 427	5, 26h 26, 502 22, 296 4, 296	4, 959 22, 568 20, 230 2, 338	22, 188 19, 42	208,824 213,776 45,198	47,184 248,575 216,703 31,872
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33 331 331-5.9	Durable goods industries: Stone, clay, and glass. Primary metals. Blast furnaces, steel mills. Monferrous and other primary.	4,395 13,829 7,152	4, 198 12, 554 6, 255	3.877 111,412 5,644	4,056 10,811 4,721	12, 131 34, 777 16, 620	11, 184 27, 000 11, 361	12, 799 37, 760 16,831	13,279	4,489 11,627 5,451	10,823	3,946	11,880	4,337	4, 285 .0, 225 4, 240	4,124 9,549 4,429	40,997 114,483 52,723	40,511 121 047 59,293
34 35 351	N N	5,592 9,980 14,862 1,261	5,292 8,903 14,817 1,132	4,854 8,522 12,931 1,149	5, 290 8, 621 14, 177 1, 017	15,436 26,046 41,925 3,298	13,267 25,271 37,437 2,911	17,218 29,053 43,49n 3,480	5,518 10,237 15,175 1,379	5, 155 9, 310 14, 662 1, 215	4,702 8,745 12,237 1,041	4,502 8,030 12,954 869	3,297 9,690 14,245 1,255	4,961 9,329 13,824 1,232	4,924 9,528 12,741 1,073	4, 132 8, 592 12, 252 841	\$1,761 91,192 138,701 10,902	49,922 93,900 136,409 11,205
354	material-handling equipment. Metalworking machinery General industrial machinery.	2,824 836 1 259	2,786	2,450	2.509	7,745	6,766 2,411 2,867	3,319	2,822	2,680	2,337	2,417	3,029	2,769	2,627	2,604 911 1,000	26,565	27,339 9,668 11,418
									66717								001111	

See footnotes at end of table.

(Millions of dollars)

				Seas	Seasonally adjusted	ted						No	seasonal	Not seasonally adjusted I	11			
			Mon	donthly			Quarterly					Monthly	1 y				Year to date	late
SIC	Industry					4 4 4				1351 4 16	non the		Last	4 months a year	a year ago			
		1980P	1980r	1980r	1980	1980	1980	1980	Oct. 1980P	Sept.	Aug. 1980 ^r	July 1980	Oct. 1979	Sept. 1979	Aug. 1979	July 1979	1980	1979
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery	11,121	9,977	10,793	17 0 17	30,444	30, 700	33, 175	11,705	10,642	10,534	8.883	10,047	10,400	9,602	8, 423	136,095	96,501
	distribution equipment and industrial apparatus	1,839	1,609			646.7		5,485	1,886	1,042	1,619	1,489	1, 795	1,736	1,730	1,403	17,910 ;	17,490
363	Household appliances	1,190	1,242			3, 439		3,540	1,212	1,300	1,234	1,030	1,115	1,133	1,054	1,047	11,387	10, 701
365	Radio and TV	734	7.394	3, 72.1	1, 1984	9,712	10,029	10,374	3.00.0	3,	3,499	2,890	3,166	3,273	2,715	4.367	33,906	28, 101
367	Electronic components	1,929	1.630			4.950		6,044	1,741	1, 71.5	1,642	1,435	1,666	1.572	1,722	1, 196	13,401	27,142
37 6	Transportation equipment	14,978	17,900		_	48,437		76/ '87	19,073	. 3. 90.	11.503	707.71	197,781	18.4.3	13, 526	14,409	1,7,839	184, 134
2 1	parts	3,294	5,685	3, 794	5, 68.	15,161	19,574	15.588	1.931	P. 249	3 34.	5, 731	6,338	6,169	4.435	4,883	54,151	34.352
3731	Shapbuilding and eilitary tank vehicles	834	2,389	1,244	2,2	4.457	21	2,595	1,115	2,269	107	808	956	764	789	619	10,336	7,27
38	Instruments and related products	3,576	3,573	3, 11	3.317	10,4,11	9, 279	11,096	3,7.0	1,173	3, 145	3,038	3,290	3,387	3,117	827	34,791	30,34
24 39 39	All other durable goods industries	7,997	7,451	7. 011	7,307	21, 6mg	20,325	23,817	8,394	× 0, 12,	7,503	9,764	8,513	3,341	8,130	7,250	74,620	77,151
							1				-	-						

"Supposents and new orders are the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for "Revised. Ppreliminary.

neous personal posts.—Comparable to the previous producers' capital goods and the defense products (old series) categories, coefficient and section and series and comparable (excluding form mentanes) and equipment, and experts and exp trading-day or caledaar-month vertations.
The supplementary esties are retained to separate industry categories as follows
The supplementary series are retained from a strictles are portery; cuttery, handtools, and hardeare; household appliances, radio and TV; ophtabre goods, watches, and closis instance.

TABLE 3. VALUE OF MANIEW PERSENT PRIVILLED ORDERS FOR INDUSTRY GAORIES, "WART CATEORRIES, AND SUPPLICATION SERIES.

				Seasona	seasonally allusted	-						101	-63.onol	to the seasons of the season to the	1		
										-	1		Tangara.	ry arrivante			
		Months!	1910			-	quarterly						Monthly	alv			
Infactor											East a s	~onthe		Last	t 4 months	a vear ago	
	1980	14807	1 48 1	188	= =	H 1	<u> </u>	111		1 4800	Septi.	Aug.	July 1980	Jet.	Sept 1 = 7 =	7.7	1,1,1
TOTALS								1		Į							
All manufacturing industries	2.17, 17.2	280,410	282, 497	292, 463	38.1	20t, a 7	27 ., 13	5, . 55	, x x ? 17		283.671	2 KZ , U.s. 7	282, 334	273.707	271,124	268,812	268,644
excluding transportation	175,182	172,434	172,084	171, 4.1	1/1,+33	181,265	2 76 , Bury	174,143	1 '5,084		17	17.,644	172,446	173,363	173,215	17,601	173.874
Durable goods industries	274, 585	773,040	272,231	:11: 36:	, 70, 383	1,34,864	207,874	261, 32	257,187	110,700	.72, 411	.71,364	271.780	262,521	254,431	2>7,682	258,040
Non-durable goods industries	10, 10,	10,875	14,746	1 ,	10,661	12,023	11,811	11,741	12,6 50	<i>x</i> ,	16, 260	1.,681	10,974	11,186	11,184	10,430	10,65+
MARKET CALEGORIES																	
Home goods, apparel and communer staples.	30.0	,170	297***	1.,	1.2.1	227	9.	÷, 66	(m)	Į.	÷	7ª 	4.500	, 41.7. t	5,287	5,238	5,182
cxcept automotive,	Jul, mg	161,670	134,570	154,384	134, 11.	1573	34, 111	15.45	Z	11.5,400	160,711	1 38. 14	138,764	1 >2,182 [150,146	147,615	1+8,216
and intermediate products	211,064	14,685	20,063	20,269	20,423	20,773	7	21,18	21,018	1 1,8 1	19,77,	20,141	20, 368	20,648	21,018	21,217	21,142
Intersediate products	101, 112	100,242	99,104	48,631	796,362	102,3.6	17, 11	46,026	13.642	100,000	18,8,8	44,276	48,717	45,430	44,619	44.742	44,154
SUPPLEMENTARY SERIES?																_	
Household durable goods indus- fries. Capital goods industries. Nondefense.	3,116 141,771 131,76 8,500	1,233 1,233 1,34,773 57,771	3, 881 1 au, 487 1 55, 575	1,288 190,246 140,374	8, 387 188,921 180,810 15,011	3,680 180,014 136,118		5,923 1721,734 126,733 146,733	3,457 167,108 17.,070 1.1.18	7 7 2 7	1.41,196 134,368 154,368	1,671 189,027 134,707 54,430	3,608	3,780 175,353 128,645 46,658	4,185 171,783 126,440	4,181 168,744 124,648	4,175 167,941 123,343 44,598
INDUSTRY GROUPS AND INDUSTRIES																	
Brone, clay, and glass		2, k 23	2,642	2,64,	2,702	1, 66	2,47	1,386	£ 10.1	-	25.	05.47		2	200	3	200
Blast furnaces, steel calls	18,124	16,731	15, 224	1.,727	25,139	24,328	10,000	18,877	11,038	27, 43, 14, × 4]	26,336	10,634	12,774	18,806	17,845	18,481	31,738
Rabricated metal products	17,247 18,749 18,749	8,842 27,178 of ple, ale	8,706 27,706 36,244	4,874 23,487 00,426	38,042	28, 34,	4, 554 1 18, 382 18, 794	8,861	27,811	1 1 1 1 1 1	8,616	8.604 17.74	8,768	8,743	8,577	8, 570	8,373
Construction, wining, and		16,413	16, 407	16,275	16,912	16,741	16, 6, 91	116, 785	11,86.	7	16, 568	16,23	16,170	16,832	16,740	16,716	10,688
Metalworking nachinery	2,138	8,00,7	7,783	7,931	7,468	1,748	7,143	4,041	6,111		7, 432	7,824	8, elu 7, 536	8,175	7,345	8,067	8,108
													100		0071/	1.372	6071

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

Industry group		Monthly	ally	Seasonal	Seasonally adjusted		Quarterly				7 + 2 4	Not	Monthly	djust	ed ¹	5 S S S S S S S S S S S S S S S S S S S	
	Oct. 1980 ^p	Sept.	Aug,	July 1980	11 1980	1980	1979	1111	111	Oct., 1980 ^p		Aug.r 1980r	July 1980	0ct. 1979	Sept. 1979		July 1979
INDUSTRY GROUP AND INDUSTRIES																	
Durable goods industries Continued Electrical machinery	38,878	38,534	38,947	38,437	38,830	37,944	35,631	34,858	33,845	39,260	38,755	39,068	38,597	35,373	35,114	34,589	33,968
distribution equipment and industrial apparatus	7,907	7,825	7,964	7,992	8,000	7,657	7,531	7,418	7,254	7,913	7,813	7,965		7,490	7,414	7,423	7.228
Radio and TV. Communication equipment Electronic Components Transportation equipment	18,974 10,266 112,170	18,659 10,225 113,476	18,864 10,381 110,913	18,252 10,589 111,042	18,365 10,792 109,611	17,592 11,014 105,642	16,123 10,308 102,906	15,803	15,489 9,159 94,748	19,380 10,205 113,795	18,660 10,388 112,231	18,681 10,568 109,403	18,188 10,737 109,858	16,214 9,887 100,344	15.816 9.798 97,905	15,383	15,310 9,487 94,820
Aircraft, missiles, and parts	89,650	91,050	90,178	90,247	88,827	81,804	77,929	73,098	69,254	61,407	670.06	88,699	88,937	75,102	72.371	176.69	69,243
tank vehicles. Instruments and related	13,350	13,203	11,629	11,241	11,205	11,237	11,297	11,146	10,895	13,352	12,983	11,545	11,382	11,086	10,960	10,929	10.948
All other durable goods	2,847	2,817	3,019	3,047	3,084	3,514	3,317	3,297	3,361	2,858	2,971	3,274	3,344	3,411	3,485	3,544	3,607

363 365 366 367 372,6

3731 3795 38

18hipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplamentary series are regroupings of the separate industry categories as follows:
Household durable goods industries-Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries-Household furniture, kitchen articles and pottery; cutlery, handtools, and bardware; household durable goods industries-Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries-Household furniture. neous personal goods.

Captial Good influstrial exchanges become the previous produces to captial good and are determined and the previous produces to captial good influstrial exchanges to captial good and are captial for the previous produces and the produces of shipbuilding and repairing and railroad equipment, communication equipment, and advances and ordenace, communication equipment, and ordenace contraction equipment, and ordenace contraction equipment, and ordenace, communication equipment, and ordenace, communication equipment, and ordenace, communication exposes and any and repairing

lable 4. AALT OF MANUFACTURERS INVENTORIES FOR INDISTRY GROUPS, WARRET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

					Seasonally	Ally adjusted	p						Not	seasonally	adjusted!			
			Mon	Nonthly			ď	Quarterly						Monthly	13			
316	Industry					:		-		:		Last 4 mc	months		Last	s conths	a year as a	
		198 P	1980	1980	1980	11861	0867	1979	1979	1679	Oct. 198.P	Sept.	Aug. 1980	July 1980	0ct. 1979	24 pt	10.K.	July 2
	PYTALS																	
	All manufacturing industries	243,313	243,615	243,517	244, 105	243, 630	238,522	228,258	221.341	213,942	242,018	241,441	242, 763	242,990	222,296	219,33	247,493	7. (,
	Nanufacturing industries ex- cluding transportation	208,933	209, 665	210,012	211,154	21 ,942	207,075	198,342	192, 703	186,605	207,572	207,511	208,910	210,362	192,623	.90, 736	154,34	187,135
	Manufacturing Industries with unfilled orders	168,504	168,621	168,933	.68,873	168,682	164,539	158,073	152,449	147,747	166,921	167,284	169,186	169,160	153,073	151,211	15., 226	144,527
	larable goods industries	160,649	160,691	141,981	150,87,	16.1, 404	157, 127	151,689	146,048	141,480	158,987	159,177	150,807	100 645	145,672	144, 618	144.37	14, 174.
	Durable goods with unfilled	676 671	150,081	116,270	150,210	149, 701	146,058	1,40,633	135,537	131, 133	148,771	148,940	15-1, 2-3	15 422	134,339	.34,472	134,21	.3., 32
	Nondurable goods industries	82,664	82,924	82,436	83, 230	83, 226	81,395	76,569	75, 293	72,462	83,031	82,264	81,756	82,344	75,034	٠, ' ، '	73, .3	:
	Nondurable goods with unfilled	18,555	18,340	18, 663	18,553	18, 981	18,441	17,439	16,912	16,614	18,150	18,344	18,943	19,138	16, 734	16, 739	17, 4126	16, 495
	MARKET CATFOURIES																	
	Home goods and upparel	17,876	31,071	17,985	18,008	18, 286	18,168	17, 384 29, 749	17,459	17,414	17,314	31,397	18,261	18,549	16,825 3.,312	24, 714	28, 513	14, 133
	Equipment and defense products, except automotive	9,056	9,347	69, 291	9,347	4,647	64, 718	61,621	58, 296, 11, 249	55,570	69,123	9,285	9,340	8,776	11,472	27. 22.	11,503	19, 197
	Construction materials, supplies, and intermediate products	19,575	19,649	19,707	19,827	19,954	20, 166	19,646	18,943	18,904	19,175	19,330	19,520	19,770	18,670	18,643	18, 7+8	.8, 745
	Other materials, supplies, and intermediate products	95,819	96,490	96, 290	97,081	97,506	94,867	89,311	85,973	82.290	990,26	95,089	96,081	97,286	86,074	84,772	84, 31x	83 447
	SUPPLEMENTARY SERIES																	
	Household durable goods indus- tries. Cyptish goods industries. Nondefense.	9,022 77,911 66,285 11,626	9,058 77,401 66,091 11,310	9,160 70,956 05,779 11,177	9, 132 76, 569 65, 661 10, 908	9, 267 75, 370 64, 782 10, 588	9,311 72,177 62,102 10,075	9,180 68,640 59,178 9,462	8,852 64,996 56,443 8,553	8,829 61,633 53,681 7,953	8,785 77,277 65,744 11,533	8,943 76,750 65,465 11,285	9,272 76,826 65,474 11,352	9,335 76,573 65,478 11,095	8,646 65,829 57,019 8,810	8,735 64,381 55,841 8,540	8, 936 63, 334 55, 006 8, 248	9,049 52,504 54,322 8,132
	SH																	
32 322 33 331	Durable goods industries: Stone, clay, and glass products Glass containers. Primary metals. Blass furnaces, steel mills.	6,064 563 20,084 10,859	5,920 554 20,187 11,045	5,993 583 20,588 11,423	6, 079 580 20, 841 11, 539	6, 141 593 20, 884 11, 751	5, 987 20, 387 11, 151	5,643 547 19,803 10,834	5,436 564 19,033	5,361 538 18,618 10,312	5,809 557 19,995 10,957	5,746 549 19,999 11,067	5,925 591 20,460 11,412	6,109 598 20,811 11,481	5,310 5,8 19,006 10,619	5,274 557 18,845 10,467	5,380 558 18,982 10,572	5,445 269 18,749 10,312
333-6, 9	Nonferrous and other primary metals	7,877	7,807	7,804	7,918	7,741	7,848	7,563	7,166	6,915	7,751	7,635	7,718	7,965	7,031	7, 308	7,033	7,070
341 35 351	Netal cans, barrels, and drums. Machinery, except clectrical. Engines and turbines Farm machinery and equipment.	1,410 38,799 2,477 3,100	1,267 39,107 2,496 3,154	1,300 39,255 2,506 3,253	1,370 39,339 2,547 3,214	1,439 38,940 2,558 3,195	1,502 37,609 2,703 3,114	1,554 36,624 2,701 3,108	1,397 35.527 2,630 2,913	1,369 34,053 2,513 2,828	1,197 38,233 2,471 2,904	1,134 38,533 2,472 3,012	1, 293 38, 818 2, 477 3, 136	1,484 39,070 2,508 3.175	1,246 35,443 2,558 2,805	1,253 34,969 2,606 2,782	1,379 34,688 2,491 2,760	1,471 34,317 2,475 2,785
354 354 356	Construction, mining, and material-handling equipment. Metalworking machinery General industrial machinery.	8,698 2,568 3,670	8,589 2,544 3,715	8,659	8, 720 2, 608 3, 730	8, 739 2, 560 3, 725	8,308 2,436 3,671	8,150 2,314 3,650	8,099	7,963 2,184 3,322	8,489 2,557 3,622	8,435 2,544 3,670	8,503 2,583 3,729	8,625 2,582 3,737	8,017 2,261 3,449	7.953 2,213 3,474	8,029	8,013 2,188 3,453
See	See footnotes at end of table.																	

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

					Seasonally	ally adjusted	pa						Not	t seasonally	y adjusted			
			Monthl	1 y				Quarterly						Monthly	ıly			
SIC	Industry					3	,					Last 4	months		Last	t 4 months	a year ago	
		1980 ^p	Sept.	Aug. 1980	July 1980	11	1980	1V 1979	111111979	1979	0ct.	Sept, 1980 ^r	Aug. 1980	July 1980	Oct. 1979	Sept. 1979	Auk. 1979	July 1979
	INDUSTRY GROUPS AND INDUSTRIES Continued																	
	Durable goods industries																	
361.2	Electrical machinery	22,097	22,095	22,012	22,079	21,861	21,620	20,598	19,462	18, 689	21,865	21,882	22,052	22, 218	19,610	19,257	19,185	19, 124
363	industrial apparatus	3,920	3,955	3,977	4,033	3,982	3,868	3,770	3,637	3,514	3,890	3,898	3,949	4,017	3,691	3,58°	3, 556	3,522
365	Radio and TV	1,046	1,059	1,088	1,095	1,084	1,053	1,039	970	686	1,031	1,062	1,141	1,141	950	4,004	1,029	1,073
366	Communication equipment	3,410	3,383	3,392	8,252	3,386	3,240	3,099	6,588	6, 134	3,376	3,380	3, 395	3,397	5, 763	6,557	0,438	6,247
37	Transportation equipment	34,380	33,950	33,505	32,951	32,688	31,447	29,916	28,638	27, 337	34,446	33,930	33,853	32,628	29,673	28, 639	28,348	27,421
372,6	Aircraft, missiles, and parts	22,792	22,136	21,755	21,214	20,589	19,049	17,417	15,549	14,653	22,657	22,071	21,940	21,312	16, 157	15,509	14,918	14,741
3795	tank vehicles	2,465	2,383	2,426	2,362	2,386	2,130	2,165	2,034	1,714	2,492	2,441	2,461	2,481	2,108	2,081	2,021	1,917
38	Instruments and related products	8,315	8,290	8,404	8,425	8,393	8,237	7,765	7,471	7,317	8,237	8,250	8,412	8,464	7,447	7,438	7,5.02	7, 479
381-4	Scientific and engineering Photographic goods	5,926	5,890	5,946	5,944	5,859	5,597	5,291	5,021	4,780	5,872	5,843	5,910	5,932	5,050	4,981	2,9.9	1 . 8 . C
24 25 39	All other durable goods	12,176	12,279	12,344	12,027	12,046	12,181	11,936	11, 766	11,594	11,965	12, 112	12,276	12,051	11,660	11,614	11,603	11,57.1
20	Nondurable goods industries:	21,606	21,337	20,867	20,830	20,272	20,431	20,397	19,780	18,957	22,620	21, 232	20,393	19,869	20, 797	19, 793	80	18, 172
201	Meat products	1,981	1,918	1,916	1.813	1,781	1,851	1,927	1,757	1,719	1,943	1,883	1,851	1,800	1,805	1,7,4	1,60%	1,090
207		2,477	2,321	1.824	1,875	1,764	1,627	1,913	1,718	1,571	2,477	1, 731	1,501	1,684	1,820	1,285	1,373	1,410
203-6,9	Tobacco products	3,707	3,722	3,575	3,618	3,529	3,506	3,503	3, 762	3,668	3,725	3,599	3,311	3,213	3,696	3, 638	3,457	3,254
22	Textile mill products	6,070	5,876	5,850	2,940	6,085	6,096	5,844	5,695	5,657	5,830	5,781	5,895	5,990	5,540	5,608	5,733	5, 21
261-3	Pulp, paper, etc	2,744	2,755	2,724	2,670	2,656	2,435	2,319	2,143	2,087	2,716	2,708	2,727	2,682	2,178	2,105	2,143	0.317
265	Paperboard containers	1,856	1,903	1,917	1,976	2,030	1,980	1,909	1,834	1,778	1,843	1,888	1,951	2,028	1,797	1,819	1,810	1,839
28	Chemicals and allied products	18,334	18,489	18,517	18,964	19,330	18,677	16,982	16,492	15,916	18,141	18, 208	18,333	18, 767	16,409	16,258	16, 1194	15, 420
283.4	pigments	5,790	5,887	5,942	6,249	6,453	6,055	5,246	4,975	4,687	5,796	5,857	5,948	6,230	5,023	4,950	4,834	4, 792
30	Petroleum and coal products	8,405	8,894	8,811	8,885	8,763	8,062	6,581	6,343	5,402	8,739	9,037	8,918	8,882	6,571	6,440	6,024	0.00
	n.e.c	4,459	4,470	4,520	4, 769	4,817	4,954	4, 777	076'7	6,859	4,338	4,372	4,433	4, 705	4, 703	4,920	4, 522	+, 894
27	All other nondurable goods	12,701	12,661	12,746	12,782	12,832	12,373	11,690	11,859	11,688	12,351	12,683	13, 105	13,342	11,450	111,877	.2,131	12,334

Preliminary.

^{*}Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are adjusted to the separate industry categories as follows:
The supplement's goods are regroupings of the separate industry categories as follows:
Instable goods instances, redict and order, articles and pottery, cutlery, handtools, and hardware, household dupthalance, radio and Ti, ophthalance goods, articles and ordery categories and pottery.

Capital goods indistries—Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products—Machinery, everget electrical (excluding from anotherery and equipment and matchine shops), electrical machinery and equipment and matchinery and equipment, and an incomparable of the parts, and ordinance.

In the construction of shipports and replaints and rablicod equipment, communication equipment, and an incomparable of the products of the production of efforts work filled by targe defense contractors in the following industries and endingent, and an arrange of the product of preferences of the specified in the specified in the following industries and engineers of preferences of pr

			July 1979	214,474	142.752	18 754 5	18,632	34,317	27,421	11,570	15,920	4,894		73,644	45,443	6,797	9,678	5,681	2,293	28,201	1,540	19,020		73,371	61,809	6,792	15,698	15,991	2,661	11,562	1,711	95,49	67,964	35,500	2,543	4,378	144,44	1,962	32,464	2,355
		a vear age	Aug. 1979	217,843	144,370	5,380	18,622	34,688	28,348	73 523	16,094	4,822		75,692	46,865	7,089	9,744	5,589	2,315	28,827	1,734	19,358		74,301	62,655	6,891	16,103	15,948	2,664	11,646	1,735	6,504	67,900	34,850	5,002	4,248	4,386	1,894	33,050	2,555
		r - conths	Sept. 1979	219,375	144,618	5,274	18,582	14,257	28,639	76 757	16,258	4,826		75,497	46,616	7,032	6,800	5,635	2,306	28,881	1,714	19,524		75,329	63,423	6,851	16,261	16,577	2,590	11,906	1,868	6,545	68,549	34,579	2,450	4,235	4,271	1,832	33,970	2,858
	y adjusted	Las	Oct. 1479	222,246	146,672	5,310	18,523	19,443	29,673	75 624	16,409	4,703		77,217	2,115	7,254	10,185	8,542	2,333	29,534	1,857	20,013		16,469	64,429	6,779	16,533	17,107	2,649	12,040	2,013	6,543	68,610	34,560	2,422	4,276	4,318	1,802	34,050	2,122
	Ment		July 1980	242,490	160,646	6,109	19,295	22,218	32,628	12,051	18,767	44,440		81,407	2,351	8,231	11,240	7,966	2,423	31,943	2,100	21,730		84,793	72,118	7,331	17,537	20,695	2,783	12,675	2,631	902'9	76,290	38,564	2,862	4,766	5,000	2,100	37,726	2,183
		Touths	Aug. 1980	242,763	160,807	5,925	110,011	22,0,2	33,853	81.456	18,333	4,433		80,811	2,289	8,169	11,069	8,060	2,413	31,175	1,958	20,939		85,867	73,230	7,230	17,728	21,637	2,825	12,637	2,642	6,659	76,085	37,941	2,776	4,652	4,810	2,055	38,144	2,019 2,019
		Last 4	Sept. 1980r	241,441	159,177	5,746	18,725	21,882	8,250	82.264	18,208	4,372		80,554	2,271	8,133	10,883	7,934	2,490	31,351	2,080	20,940		85,539	72,816	6,873	17,574	22,064	2,768	12,723	2,602	6,729	75,348	37,158	2,641	4,542	4,707	1,984	38;190	1,967
			Oct. 1980P	242,018	158,487	5,809	18,437	21,865	8,237	83,031	18,141	4,338		80,945	2,311	8,167	10,844	8,018	2,402	31,894	2,130	21,363		85,645	72,750	6,674	17,332	22,442	2,712	12,895	2,601	9,944	75,428	37,186	2,676	10,057	3.986	1,979	38,242	1,888
			1979	213,442	141,480	5,361	18,512	18,689	7,317	72.462	15,916	46,285		73,072	2,036	6,777	9,507	7,625	2,217	28,269	1,519	19,170		72,791	61,411	6,689	15,626	15,843	2,663	11,380	1,653	6,360	68,080	35,267	2,494	4,380	4,330	1,881	32,813	2,230
			1979	221,341	146,048	5,436	18,716	19,462	7,471	75,293	16,492	47,518		75,770	2,034	6,988	9,918	8,044	2,292	29,353	1,771	20,004		75,698	63,810	6,904	16,407	16,647	2,561	11,888	1,872	165'9	69,873	35,821	2,575	4,424	4,393	1,867	34,052	2,700
of dollars	Quarterly	11	1979	228,258	151,689	19,803	19,402	20,598	7,765	76,569	16,982	4,777		79,114	48,857	7,411	10,732	8,351	2,403	30,257	1,709	20.750		78,611	66,837	7,013	16,952	3,445	2,610	11,774	2,048	977,9	70,532	35,994	2,580	4,510	4,598	1,917	34,538	2,824
-Willions			1980	238,522	157,127	20,387	19,659	21,620	8,237	81,395	18,677	4,954		82,314	50,347	7,919	10,963	8,501	2,611 5,019	31,967	1,839	21,338		82,272	69,585	6,936	17,451	19,155	2,766	12,687	2,367	6,744	73,936	37,195	5,532	4,603	4,880	1,948	36,741	3,856 2,238 21,620
ally adius			1980	243,630	160,404	6,141	19,451	21,861	8,393	83,226	19,330	4,817		82,515	2,336	8,194	11,114	8,321	2,501	32,338	1,942	21,728		84,502	71,891	7,398	17,716	3,851	2,819	12,611	2,445	607'9	76,613	38,336	5,292	4,797	1,961	2,041	38,277	2,217
Copression		la la	1980	244,105	160,875	6,079	19,134	22,079	8,425	83,230	18,964	50,612		82,346	50,032	8,300	11,123	8,404	2,397	32,314	2,148	21,623		84,760	72,126	7,232	17,867	3,945	2,784	12,634	2,575	6,675	16,999	38,717	5,309	4,826	4,971	2,083	38,282	4,162 2,270 22.314
Table 5. VAINE OF MA	ly.		1980	243,517	161,081	20,588	18,980	22,012	8,404	82,436	18,517	4,520		80,597	2,270	8,124	11,108	7,817	2,388	197,16	1,948	21,273		85,733	870	7,184	17,916	21,489	2,823	12,620	2,658	109'9	77,187	38,832	5,280	4,830	4,854	2,073	38,355	4,205 2,144 22,714
	Month	00000	1980r	243,615	160,091	5,920	18,863	22,095	8,290	82,924	18,489	4,470		80,425	2,271	6.187	10,998	7,770	2,475	31,918	2,156	21,489		85,934	73,209	6,919	17,706	22,149	2,743	2,633	2,616	489,0	76,756	38,475	5,178	10,403	4,839	2,023	38,281	4,122 2,107 22,898
		1	1980P	243,313	160,649	6,064	18,734	22,097	8,315	82,664	18,334	4,459		80,762	48,727	8,023	10,864	7,726	2,412	32,035	2,096	21,549		85,942	73,265	6,763	17,504	22,511	2,688	12,677	2,542	6,816	76,609	38,657	5,298	10,431	4,754	2,015	37,952	3,767 2,015 23,101
		Industry		TOTALS All manufacturing industries	Durable goods industries	Stone, clay, and glass products	Fabricated metals	Electrical machinery	Transportation equipment Instruments and related products	Nondurable goods industries	Chemicals and allied products	Rubber and plastics products n.c.c	MATERIALS AND SUPPLIES	All manufacturing industries	Durable goods industries	Primary metals	Nonelectrical machinery	Transportation equipment	Instruments and related products	Chamfaele goods industries	Petrolemand coal products.	All other nondurable goods industries	WORK IN PROCESS	All manufacturing industries	Durable goods industries	Primary metals Fabricated metals.	Nonelectrical machinery	Transportation equipment	All other durable goods industries	Nondurable goods industries	Petroleum and coal products	All other hondurable goods industries	All manufacturing industries	Durable goods industries	Primary metals	Nonelectrical machinery	Electrical machinery	Instruments and related products	Nondurable goods industries	Petroleum and coal products

Nondurable goods industries.

Menticals and allied products.

Petroleum and coal products.

All other mondurates products, n.e.

Prelianteer preliance.

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

	A1	onth-to-mon	th	Aver	age monthly	rates of ch	nange 1	Average,	1975-1979
	0	August-	July-		3 months		12 months		
Item and industry group	Sept Oct. 1980 ^p	September 1980 ^r	August 1980 ^r	July- October 1980	June- September 1980	March- June 1980	Oct 1979~ Oct 1980	lverige rise	Average decline
Shipments:									
All manufacturing industries	+2.7	+4.2	+0.7	+2.5	+2.6	-1.9	+0.6	+1.6	-1.2
Durable goods industries	+3.7	+6.3	-0.7	+3.1	+3.5	-3.1	+0.4	+1.9	-1.9
Nondurable goods industries	+1.8	+2.2	+2.0	+2.0	+1.7	-0 7	+0.9	+1.6	-0 7
Inventories:									
All manufacturing industries	-0.1	+0.0	-0.2	-0.1	-0.0	+0.7	+0.7	+0.7	-0.3
New orders:									
All manufacturing industries	+1.7	+5.8	+0.1	+2.5	+4.0	-3.0	+0.6	+1.9	-1.2
Durable goods industries	+1.7	+9.9	-2.7	+2.8	+6.1	-5.0	+0.4	+2.8	-2.0
Nondurable goods industries	+1.7	+1.8	+2.8	+2.1	+1.9	-1.1	+0.9	+1.5	-0.7
Unfilled orders:									
Durable goods industries	+0.5	+1.0	+0.1	+0.5	+0.6	-0.5	+0 4	+1.2	-0.9

¹ Method of calculation of these percentages for 3 month and 12 month time intervals has been revised to reflect compounded monthly growth rates.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entoriess	hipments ra	t10	Unfil	led order (months'		atio ¹
Industry group	October 1980	September 1980	August 1980	July 1980	October 1980	September 1980	August 1980	July 1980
All manufacturing industries	1.55	1.59	1.66	1 68	3.52	3.56	3.76	3.7
Durable goods industries	2.02	2.10	2.24	2.23	4.19	4.26	4.52	4.4
Stone, clay, and glass products	1.41	1.38	1.52	1.50	0.68	0.66	0.75	0.7
Primary metals	1.69	1.78	1.94	2.03	2.50	2.45	2.50	2 - 5
Fabricated metals	1.89	2.00	2.16	2.21	3.00	3.14	3.46	3.5
Machinery, except electrical	2.65	2.68	2.89	2.82	4.22	4.19	4.51	4.4
Electrical machinery	2.05	2.13	2.14	2.19	3.61	3.71	3.79	3.8
Transportation equipment	2.11	2.21	2.34	2.24	12.67	12.66	13.95	12.
Instruments and related products	2 - 29	2.33	2.38	2.50	1.70	1.75	1.76	1.8
ondurable goods industries	1.07	1.09	1.11	1.14	0.70	0.69	0.72	0.
Food and kindred products	0.98	0.96	0.94	1.00	(7)	(y)	(X)	()
Tobacco products	2.98	3.25	3.00	3.00	(7)	(7)	(X)	(
Textile mill products	1.52	1.48	1.49	1.48	(NA)	(NA)	(NA)	(N
Paper and allied products	1.20	1.22	1.30	1.27	(NA)	(NA)	(NA)	(N
Chemicals and allied products	1.27	1.35	1.41	1.47	(7)	(7)	(7)	(
Petroleum and coal products	0.56	0.62	0.62	0.64	(X)	(7)	(\)	(
Rubber and plastics products, n.e.c	1.15	1.20	1.20	1.32	(X)	(X)	(X)	(

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums, farm machinery and equipment; motors whiche assembly operation; other transportation equipment; foods and related products; tobacco; appared and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastizes products, not except and plastizes the can be related products.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

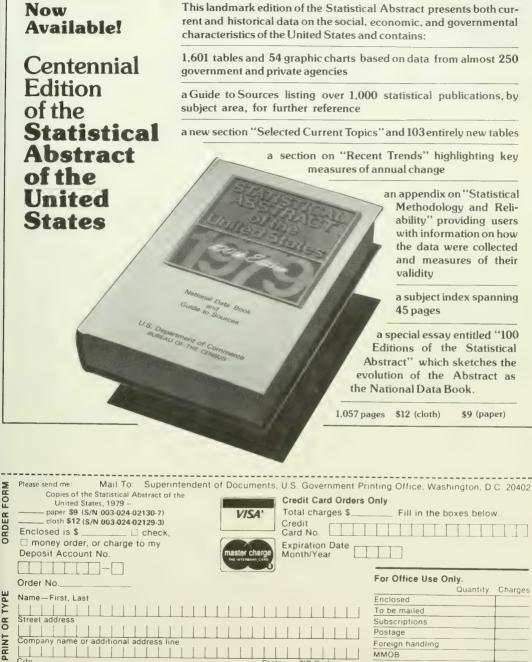
New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.





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U.S. Department of Commerce BUREAU OF THE CENSUS Washington, D.C. 20233

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Manufacturers' Shipments, Inventories, and Orders

U.S. Department of Commerce

NOVEMBER 1980

M3-1(80)-11

For Wire Transmission 3:00 P.M. Friday, January 2, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in November increased \$1.6 billion or 1.0 percent from October to \$159.6 billion, the Department of Commerce, Bureau of the Census, reported today. New orders for durable goods in November increased \$1.1 billion or 1.3 percent to \$81.8 billion. Although this is the third consecutive monthly increase in orders for durable goods, the rates of increase have declined from 9.3 percent in September and 2.2 percent in October.

Within the durable goods industries, new orders for transportation equipment were \$1.2 billion or 8.2 percent to \$16.2 billion, following a 14.2 percent decline in October. Most of the November increase came from the aircraft and parts industry. Excluding the transportation equipment category, new orders for durable goods declined a 0.3 percent.

New orders for both electrical and nonelectrical machinery were up in November. Orders for electrical machinery, increased \$0.4 billion or 3.2% to \$11.4 billion; orders for nonelectrical machinery were valued at \$15.0 billion, a \$0.2 billion or 1.1 percent increase over October.

The only significant declines in durable goods orders occurred in the primary metals industries. Steel orders were down \$0.2 billion or 2.3 percent to \$7.0 billion, following five consecutive monthly increases of 10 percent or more. New orders for non-ferrous metals were down \$0.5 billion or 8.4 percent to \$5.0 billion.

Within the capital goods industries, new orders for nondefense capital goods increased \$1.4 billion or 6.6 percent to \$22.0 billion. New orders for defense capital goods went up \$0.6 billion or 15.1 percent to \$4.5 billion, with all categories except communication equipment increasing.

Shipments of manufactured products in November were valued at \$158.4 billion, up \$1.7 billion or 1.1 percent over October. Shipments of durable goods showed a similar percentage increase, going up \$0.8 billion or 1.0 percent to \$80.3 billion. All major durable goods industries except transportation

equipment had increases, the largest coming in the primary metals category where steel shipments went up \$0.5 billion or 8.7 percent to \$6.3 billion. The decline in transportation equipment shipments was caused by the motor vehicle industry where deliveries were down \$0.1 billion or 1.0 percent to \$9.8 billion.

Shipments of nondurable goods in November were up \$0.9 billion or 1.2 percent from October to \$78.1 billion. The largest increases were in the petroleum industry, up \$0.5 billion or 3.2 percent to \$15.5 billion, and the food industry, up \$0.2 billion or 1.1 percent to \$22.1 billion.

The backlog of manufacturers' orders at the end of November was valued at \$288.1 billion, a \$1.2 billion or 0.4 percent increase over October. The value of unfilled orders for steel was up \$0.7 billion or 4.1 percent to \$18.9 billion, for electrical machinery \$0.6 billion or 1.7 percent to \$39.5 billion, and for nonelectrical machinery \$0.2 billion or 0.4 percent to \$56.8 billion. The backlog of orders for nonelectrical machinery is substantially lower than the peak level of \$60.1 billion reported in January of this year.

Manufacturers reported a book value of inventories in November of \$244.2 billion, up \$1.3 billion or 0.5 percent from October. The foods products industry reported the largest increase, going up \$0.4 billion or 1.7 percent to \$21.9 billion, while the petroleum industry had the largest decline, down \$0.2 billion or 1.9 percent to \$8.3 billion. The inventory to shipments ratio for November was 1.54, down from last month's ratio of 1.55.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for December is scheduled for release on January 23, 1981; Library is scheduled for release on February 3, 1981; Library

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Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

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	toker duate products, and	180 -2	, 1e	1	***	,,,,,,	147,43	11. 11	3.81	2.1	٠٠, ١	4 1	10.	18,0 5	17.4711	. 1, . 3	13 , 1	7 44
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	INDUSTRA GROUPS AND INDUSTRIES										* * * * *		-	-	-	-	·	. ,]41
	Durable goods industries																	
77	stone, clay, and glass		4 P. CBS	N. H 6 11	0.64	12,741	11,000	17,500	:	1 7 7		7 1.	3.1.1	505,4	, , , , , , , , , , , , , , , , , , ,	4, 4,85		1 2
322	Pripary wefals		11 20		Ope of	1,000	1,11	1, 138	<u>.</u>		11 111	-113	7 11	10.5	7 .	6.73		7,41
333-9	Mast furnaces, street alls.	86.7	.,776.			15.12	14, 15, 1	17,48		2,6.15	5,.17	19,	[5 [7	1,724	177	11,45	112.6	11.45
34	metals.	113	4,944	1, 100s	5,025 8,031	111,114	14, 474	17,155	21 K	3,028 10,310	, 19.5 17.6	- 100 X	4,848	2,141	5 5 5 5	4.7.4	18 c. d.	53,251
341	Metal cans, barrels, and		5	2 40	3									9				
35	Machinery, except electrical	014 41	14,743	14, 19	11, 15		40,7 %		¥ 11.	14,835	14,404		12, 22	114,411	16,481	1.1.1	134, 211.	145,453
35.2	Furn machinery and equipment,		1,165	1,104	1, 084	1,281	3,270	0024	X T	1,238	1,138	X X X	A your	1,103	1, 100	1,144		12,274
354	Metalaorking machinery.	2,421	2,574	2,513	8) 18	7, 15%	7,670	8,444 2,566	1677	2,541	2,558	2,518	2,274	74c	.,84.)	2 NH V	180.25	111,111
356	teneral industrial machinery.		1,280	1,248	1,141	1,584	1,229	0144,5		1, 11,	1,273	1,136	1,048	1,2%5	1,114	1, 158	13 222	12,14
Sec	See footnotes at end of table,																	

se footnotes at end of table,

Table 1. VALUE OF MANUFACTURERS' SHIPWENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES-CONTINUED

							(Willions	(Millions of dollars					:					
				Season	Seasonally adjusted	pa						Not	Not seasonally adjusted*	adjusted				
			Monthly	hly		9	Quarterly					Monthly					Annual	
SIC	Industry						:			Last 4 mo	months		Last	4 months a	a year ago			
		1980 p	U 1980 F	1480F	1980	1980	1980	1980	1980P	0, t., 1,980 f	Sept.	Aug. 1780	1479	0ct. 3	3974 1974	Nuc. 1974	1 **0	1979
	INDESTRA CROUPS AND INDESTRIES CONTINUED																	
	Durable goods and industries																	
36	Electrical machinery	10.800	10,747	10, 392	10,283	30,742	24,819	30,858	10,940	11,123	10,955	10,062	5[4,	1,790	1,877	6 T T T	.13.4-13	[er , e.]
	distribution equipment and		1,773	1,748	1,097	5,142	5,028	5,358	784	1,605	1,794	1,540	1,5%	1,7,90	1,74.	1,554	17.51	18,381
363	Household appliances		1,238	1,154	2,315	3,244	3,050	2,022	1,197	1,290	1,244	1,152	1,043	1,162	1.17.1	3111	7,747	11,750
36.	comparation equipment.		3,230	5,149	5,1 19	2017	4,256	21 + 18	3,115	3,202	3,245	3,005	2,747	171.		1+4.	33. ×19	164 , 62
367	Electronic components	1,908	1002	15,334	15,304	44,575	1,533	40,013	16,758	17,552	10,073	11,759	15,310	10,8,1	1,7,8	13,13%	104, 340	15,457
371	Motor vehicles and parts		4,435	0,/45	† c ' x	20,143	77	660,07	6.15	11,141	7 7	27710	C x .	11, 130	-	+	41. /13	1-1,361
	parts	4,753	692 *+	4,817	3,84,3	12,945	12,550	11,71+	4 783	+ + + 111 7	4, AUS	5,133	3,584	5,4.47	3,7+7	3,731	+b,+l,	5 4,7 5
37.95	tank vehicles	117	D+1	815	3 (F)	7011	+5+,.	2,455	129	751	55.	26	200	T 10	1,,,,		×, 354.	1.
38	Instrucents and related	3 4 70	0,000		5 3 55	1 2 40 5	1 2 5 7	1.6.1	3.759	12. 1	5113		, Mile	1111	4 6.0			
381-4	Strentific and engineering.	2,103	1,592	2,051	1.5.5	5, 444	3,734	5,047	1, 481	2,104	2,162	1,775	1,83	1,324	1,4,7	19:	25, 53.05	19,154
255	All other durable goods	8,754	1,465	7,452	7,434	.11, 451	20,753	lac, t.	7, 980	8,507	8,371	7,572	7,585	2,548	13.67	3,1,3	2	
	Nondurable goods industries																	
20	Food and kindred products		21,825	.2,178	,110	105,180	59,8119	45" 19	22,303	27,072	72,790	21,987	20,518	,0,883	10,1,0.	14,544	24.8.50	114,479
102	Meat products		2,637	7,357	5,272	15,499	13,566	14,053	5,517	1,637	5,300	5,277	5,103	2,240	1, 10,	5, 4.7	6, 640	.17.
207			1,723	1,045	1,7.4	5,070	4,577	1, 14	1, 895	1,732	1,725	1,177	1,000	1,007	1.70	5,44.5	20 X	10,444
203-6,9			9,118	4,511	4,235	27,552	15,339	14,937	9,443	1,542	10,00	1, 450	8,452	5,745	1,000	1111	96, 144	80,34
55	Textile all products		4,027	1,45	5,138	11,924	12,124	14.01	4, 24,	4, 103	1,13/	3,145	1.159	1, 197	1,035	3 3	3, 30	11,121
361	Paper and allied products		5,4055	2,15	2,7%	17, '41 × 534	45,134	17, '8.	676.0	r, Inco	1521	5,973	0,040	1,740	7 1 2 4	17.17	50 . 74	11,672
265	Paperboard containers	1.002	1,355	1,547	1,1,1	5,0,7	5,807	4,145	1,35	1,43.	1,591	1,292	6 7 7	2,350	300		24,000	7
1964	Chemicals and allied products		1,8 11	1404	13, 242	6,565	5,155	5,401	(8, .,	1,540	1, 44	1,841	7.0	1,735	1,877		11, 43,	14,1.3
281,t	Infustrial chemicals, ex-								10, +27			1000	1-,010	1.,73	15,11.	K-1-1-1	1,0,1,0,1	K101.01
283,4	Drugs, soap, and tolletries	3 8311	3,874	4,7.73	1,004	13,210	13,154	11,73	3, 7, 3	4,777	F 10 1	4.2.4 X X X	91,	4,517	F 7-7 - 1	+, 174	72	7
30	Rubber and plastic products	120,021	15,038	14,395	14,314	42,634	+5,734	43,143	164	14,877	1-,1	14,346	12,774	1.,344	1.,5,1	11.	. 17, 71	25,55
c	n.e.c.	3.882	3,796	3,724	1,775	11,088	17,230	11,541	3, 70.	260 45	5,820	3,775	3,53.	5, 44,	d	7 12 1	7	.1, +1.3
37.2	All other nondurable goods	11,173	11, 967	10,434	10,100	1, 1144	31,258	31,314	11, 73.	1.,197	11,858	11,126	10,054	11,00.1	10,80.	1150,00	- 1 × - 1 ×	1
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*Superors and new orders are the totals for the period and are adjusted for trading-alay and calcular-wouth variations, unfilled orders, and inventories are as of the septies are assistances.

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Table 2. VALUE OF MANUFACTURERS! NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATFROARIES, 1915 ST PRIFEWENTARY SERIES. -Continued

(Millions of dollars)

				Spaso	Seasonally adjusted	ted						24	No.		100			
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			Mon	Monthly			Quarterly					Month ly	111				True to	aft.
SIC	Industry	197	410.00	.,,	, in	=	-	,		138.1	717.011.		last	last 4 months a verr	3 vetr 1go			1
		1990F	1980	1980	1980	1980	1980	1980	Nest 1980 ^p	1980	3 pt 1	1940 1940	1977	1974	19.4 19.9	12	147	1979
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical frachinery	11,448	111, 398	4,977	10,790	30,444	30,700	13,175	11, 35	11,738	10,64.	+66,7,	9,357	10,047	1		117,15	105,948
363	Household appliances,	1,739	1,851	1,639	1,670	45 + 6	3,073	3,540	1,154	1,897	1,64,	1,619	1,644	1,79.	1,7:4	- 12,00	19,550	19,134
365	Come unication equipment		5,532			4,712	10,000	10,374	1,576	5,91.	3,125	3,44,5	17	3, Len	3,273	2,215	37,443	30.28
77.72	Transportation equipment		15,307			4,950	5,-76	0.044 4×.79×	15,840	15,387	1,738 Da,445	11,505	1, 11, 14, 15, 34;	1,066		1,722	20, 350	18,756
37.33	Shipbuilding and military	4,484	3,285	5,272	3,794	.4.74	19,574	.5,5xx	3,7.10	5,4,5	984.5	3,39	1,138	23.4	7	£ 7.	5.4.5	59,51,
3795	Instructors and related	175	730	339	1,24	+ , 4, 7	i .	2,343	244	7 7	542	795	133	50.5		J r	11,111	t T
き	products	3,007	3,551	1,573	1,511	15,4-1	4,774	11, 145	3,66-	3,7,8	3,37.0	3, 2+0	5,244	167.5	3,347	4,117	1.443	53,73
11 7	infastrios,	+51.1.	7,949	7,401	7, 1111	-1,963	(9) 325	23, 457	5 1	4,54), 2	5,513	1,55,	×10,×		-,13)	3 /2 67 €	6-1, 5-1

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33	Barathe costs industric Stone, clay, and class. Pricary wetals	14, 19,	Langer Lead	7,741	11,7.5	#1.1°	3 1.3	7 12	=	2 m 2		276	1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	112	111			3,0% 18,4% 18,4%
50 00	fabricated ordal products		1,007	5, 34.	8,701	5 1	- 1	\$ 5 = 7	Tax'.	7	; ; ;	8, 14 l	8,636	8,854	S, blax	x, 75, x, x, x, x, x, x, x, x, x, x, x, x, x,	×,577	8,570
c 2 i	Machiners, except electrical	The state of	11,371	Alector Tend	14. 141.4 MA	Physics of the party of the par	1, 114	200	; ÷	15, 21, 25	11.	14,145	11, tos	11,244	15,274	15,711	15,35,1	57,43h 16,71h
354	concruction, naming, and asterial-handling equipment. Wetakeorking machinerv coneral industrial machinery.	1 2 2	7,124	8,007 7,257 n,177	7,784	7,968 7,186	8,477 7,748 7,183	7, 198	7,737 7,737	7,444		8,257 7,181	7, 452 7, 400 6, Pen	7, 824 7,368 6,374	8,128 , 033 7,143	x,175	7,445	4,0h7
31-15	See footnotes at end of table,																	

TABLE 3. VALUE OF WANDFACTURIES: INTILLED ORDERS FOR INDISTRY GROUPS, MARKED (ATECRIFS, AND SUPPLIMENTARY SERIES-CONTINUED)

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					Seasona	Scasonally aljusted	-						Not	Not seasonally alpaste p	diuste f			
			Non	Monthly				Quarterly						Manthl.	1.			
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351,2	Heetrical machiners	14,524	38,884	38,534	38,947	18, 430	37,944	35,631	34,358	13,845	37,416	19,264	38,755	39,068	15,148	15, 17,	35,114	34,589
	naturbation , taip.com and			_		8,300	7,657	-	7,418		, "	7,908	7,813	7,415	7,418	7,443	7,414	7,423
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n 4	Caro unitalian equip ent	-					17,592			***	11,574	19,368	18,650	18,681	15,111	14,14	1', Alb	15,53
307	The resist components	10,041	10,268	10,225	13,381	10,792				9,159	57.35	10,207	10,348	10,5+81	4,366	7,887	1,738	9,738
37	See out the state and		111,653				135,642	192,906	0.58,840	44,748		113,242	111,615	104,403	101,374	100, 544	37, 115	45,204
	- Control of the cont	98,881	89,150	40,632	90,178	08,8.7	81,804	17,439	73,098	69,254	* * * * Y	40,894	59,13	88,693	71.5375	75,102	176,27	126, 20
37.65	The cells of the c	13, 155	13,228	15,203	11,624	11,205	11,237	11,297	11,146	10,895	11,143	13,229	12,483	11,545	11,9.3	11,085	11,460	19,924
	Invitation and polation	6,174	ь, 195	r, 23.2	6,213	r, 295	6,459	5,485	5,830	5,528	.1.	9,208	6,255	h, 292	5,865	5,416	5,405	5,826
1 &	Indestruction	2	2,799	2,817	910,5	2,084	3,514	3,317	3,297	1,361	2,7,5	2,810	2,971	3,274	1,117	1,411	3,455	3,544

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345	Communication equipment		1,046	1,05%	1,0%%	1 0%	1,953	1,434	170	184	5.5.	1,150	5,330.1		*	5.7.	1,557	1,11,4
35.7	Electronic components		5,417	13,385	5,542	32,084	31,44	4, 11 to 5	4 0 ° × .	2,005	3,351	3,383	3,170	1, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	20, 23		160,101	10,00
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: 5	Nondurable good industries look int kindred products Next products	,	21,527	1,557	1,926	1,741	1,851	2,350	13,741	1,71%	2, 2	1	2001	1,611	E	2 5 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,74	10, #
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21	Tob or a products		3,723	3,72	11,70%	55.7	5, 69	7 . 5	2,7%	3,01 B	3,235	+ /		1111			5,03	
2.5	Coper out although the con-		5,475	7,475	7,356	X Y	7, 45	100	3 -1 -1	545	2 X 3 Z	5, 40 0 + 10	7 .	1 X X 1	10,	3 5 7	1,117	5,55
~ I	Paperboard containers		1,312	2,785	1,417	4 8	1,485	12.5	1,114	1,775	2,740	1,349	2004	17	1, 20	/ :	1,1,1	\$ 1. T.
, £ 4,	All other paper containers		18,356	18,484	18,517	11, 05	10,51	L. ONL	0.1.0	1	7 1	13,100	5 5	1-, 35 %	* 12.	7 7	17,100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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2,83,0	Drugs, soap, and toiletries.		N X	7.4			- 7.)	2.7	ol.	18.		1 1 1	1.				1	
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(Based on seasonally adjusted data)

	Month-to-month			Average monthly rates of change				Average,	
Item and industry group	Oct Nov. 1980 ^P	Sept Oct. 1980 ^r	Aug Sept. 1980	3 month-			12 months		
item and industry group				Aug Nov. 1980	May - Aug . 1980	Feb May 1980	Nov. 1979-	lverage rise	trerage decline
Shipments:									
All manufacturing industries	+1.1	+2.6	+4.2	+2.6	+1		+11.8	+1.6	1.2
Durable goods industries	+1.0	+3.8	+6.3	+3.7	+1.2	3	+11.7	+1.+	-1.9
Nondurable goods industries	+1.2	+1.3	+2.2	+1.0	+1.2	-0.5	+(),4	+1.0	3.7
Inventories:									
All manufacturing industries	+().5	-0.3	+0.0	+0.1	+),()	+1.2	+1.5	+0.7	-11, 5
New orders:									
All manufacturing industries	+1.0	+1.8;	+5.5	+2.7	+1.9	-3.5	+0.7	+1.9	-1.3
Durable goods industries	+1.3	+2.2	+9.3	+4.2	+2.4	-6.0	+0.6	+8	1
Nondurable goods industries	+0.7	+1.4	+1.8	+1.3	+1.5	-0.9	+0.8	+1.5	- 1.7
Unfilled orders: Durable goods industries	+0.5	+0.4	+0.9	+0.6	-0.1	-0.0	+0,4	+1.2	-4,4

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

thased on seasonarry adjusted datas								
Industry group	Inventorieshipments ratio				Unfilled ordersshipments ratio ¹ (months' backlog)			
Andotty group	November 1980	October 1980	September 1980	August 1980	November 1980	October 1980	September 1980	August 1980
All manufacturing industries	1.54	1.55	1.60	1.66	3.49	3.51	3.56	3.76
Durable goods industries		2.01	2.10	2.24	4.15	4.18	4.26	4.52
Stone, clay, and glass products	1.39	1.40	1.38	1.53	0.67	0.68	0.66	0.75
Primary metals	1.63	1.70	1.78	1.94	2.46	2.52	2.45	2.50
Fabricated metals	1.89	1.88	2.00	2.16	2.98	3.02	3.15	3.46
Machinery, except electrical	2.61	2.62	2.68	2.90	4.18	4.17	4.19	4.51
Electrical machinery	2.05	2.06	2.13	2.14	3.66	3.62	3.71	3.79
Transportation equipment	2.11	2.09	2.21	2.34	12.48	12.48	12.61	13.95
Instruments and related products	2.32	2.31	2.33	2.38	1.70	1.71	1.76	1.76
Nondurable goods industries	1.07	1.07	1.09	1.11	0.69	0.71	0.69	0.72
Food and kindred products	0.99	0.99	0.96	3.94	(x)	(7)	(7)	(7)
Tobacco products	3.14	3.02	3.25	3.00	(V)	(X)	(7)	(X)
Textile mill products	1.49	1.48	1.48	1.49	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.24	1.23	1.22	1.30	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.30	1.30	1.35	1.41	(7)	(7)	(7)	(7)
Petroleum and coal products	0.54	0.57	0.62	0.62	(7)	(\)	(7)	(7)
Rubber and plastics products, n.e.c	1.13	1.18	1.20	1.20	(7.)	(7)	(7)	(7)

⁽NA) Not available. Preliminary. Revised. (\) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums, farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.





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3. 158:

CURRENT INDUSTRIAL REPORTS



J.S. Department of Commerce

Manufacturers' Shipments, Inventories, and Orders

DECEMBER 1980

M3-1(80)-12

For Wire Transmission 2:30 P.M. Tuesday February 3, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in December increased by \$3.0 billion or 1.9 percent from November to \$161.8 billion the Department of Commerce, Bureau of Census reported today. This brought orders for the year to \$1,811.3 billion, a 4.6 bercent increase over the 1979 volume of \$1,732.2 billion.

New orders for durable goods were up in December by \$1.4 billion or 1.8 percent to \$82.5 billion. Total durable goods orders for 1980, valued at \$915.9 billion, were 1.1 percent ower than 1979. Excluding the motor vehicle industry, 1980 orders were 1.6 percent higher than 1979. New orders for nondurable goods for 1980 amounted to \$895.4 billion, an 11.1 percent increase over 1979.

The December increase in durable goods orders of \$1.4 billion was mostly attributable to defense orders. New orders for defense products were up \$1.3 billion or 28 percent to \$5.7 billion. New orders for nondefense capital goods in December declined \$0.2 billion or 1.0 percent to \$21.6 billion, with the communication equipment and aircraft industries showing the largest declines.

Within the major durable goods industry groups, new orders for transportation equipment were up \$1.3 billion or 7.9 percent to \$17.2 billion, reflecting the increase in defense orders. Offsetting the transportation equipment increase were declines in electrical machinery orders of \$1.1 billion or 9.4 percent and steel orders of \$0.3 billion or 4.3 percent.

Shipments of manufactured products in December increased by \$0.8 billion or 0.5 percent to \$158.5 billion. Shipments of nondurable goods were up \$1.1 billion or 1.4 percent to \$79.1 billion, with the food products and chemical industries accounting for the largest increases. Shipments of durable goods declined in December by \$0.3 billion or 0.4 percent to \$79.5 billion. Small increases in most of the major industry categories were more than offset by declines in electrical machinery shipments

of \$0.6 billion or 5.9 percent to \$10.2 billion, and transportation equipment deliveries of \$0.5 billion or 3.0 percent to \$15.6 billion. All major categories within transportation equipment declined. A \$0.2 billion drop in the motor vehicle industry brought their total shipments for 1980 to \$106.1 billion, 17.7 percent less than the 1979 volume of \$128.9 billion. The 1979 value was 2.6 percent lower than the 1978 shipments for that industry.

The value of manufactures' unfilled orders in December increased \$3.3 billion or 1.1 percent to \$291.2 billion. Over half of that increase was reported by producers of defense capital goods, where backlogs increased \$2.0 billion or 3.4 percent to \$60.5 billion. The orders backlog in the nondefense capital goods category increased \$0.2 billion or 0.2 percent to \$133.3 billion, as declines in the commercial aircraft and railroad equipment industries were more than offset by increases in the other major categories.

The book value of manufacturers' inventories at the end of December was \$245.2 billion, a \$1.1 billion or 0.5 percent increase over November. The increase in the value of durable goods inventories came almost entirely from the aircraft and parts industry where inventories went up \$0.9 billion or 3.8 percent to \$23.7 billion. Inventories of nondurable goods manufacturers increased 0.2 percent over November. Raw material and work in process inventories increased in value in December by 1.1 percent and 1.3 percent respectively, while finished goods inventories decreased in value 1.2 percent.

The value of manufacturers' inventories at the end of 1980 were 7.4 percent above the December 1979 level. Inventories of durable goods manufacturers were \$161.9 billion, an increase of 6.7 percent over last year, while nondurable goods inventories increased 8.8 percent to \$83.3 billionperint recent of Document

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The estimates for December are generally subject to greater revisions than other months. These revisions are attributable to corrections to early estimates by companies and to the lower than normal response rates, as reporting is delayed by year end closing of records. For example, based on data from January 1972 through December 1979, the average monthly revision to durable goods new orders was 1.1 percent; for January through November the rate was 1.0 percent, while the average December change was 1.8 percent.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

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TABLE 2. VALLE OF MANTEACTIFIERS NEW OPDIES FOR IMPOSTO, FRANES CYTERORIES, AND S POLICYMAN SHITES

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	Not seasona	hly	Last	Dest .		1.1, 182	1, 4, 104	£	23,100	4.,134	48,483	15,882	15,798		4,474	73,488	11,26	11,481		4,194 (4,420 (7,571 3,849		1,562 10,903 4,654	5,205 8,964 13,802 1,081	2,734
,	Ž.	Monthly		St.p.		1 v4, x8t	1.1,5%	, , , , , , , , , , , , , , , , , , ,	81, abo	×16',4	7x,x,	11,531	957,577		48,5	11,509	7.54.1	17,192		2, 362 28, 135 21, 671 6, 464		11,627	5,135 9,310 14,662 1,315	2,680
			ronths	1.1.		316 8,7+	144, 673	144.74	86,. 18	11,445	74,53.	11.11	6.5, 1000		1, 2, 18 1, 18	15,399	14,045	71,244		28,137 7,428 8,428 8,488		13,193	10,374 110,374 115,1116 11,426	2,896
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	seasonally adjusted		-	1980		150,20	1.57,77.	45,784	7K, 921	188,44	74 , 302	2.8.4	10,5,03		11, usi	10,85.	12,381	67, 8		7,318 20,3860 20,460		4,198 12,554 6,255	5,292 8,903 14,817 1,132	954
	Season	13		1 198		1.48,05.	143,447		\$ 612,10%	17,186	77, 511 1	11,807	11,500	-	11,135	11,511	13,507	Ç 7.		20,081 20,618 3,908		13,745	5,478 10,131 14,806 1,310	2,899
		Monthly	,	1980		1.18,77.	147,818	43,186	81,047	67,717	17,7 18	* * * * * * * * * * * * * * * * * * * *	F		111, 559	3,121	13,138	21, 480		26, 302 21, 869 21, 869		13,029	9,884	2,505
			-	1,80P		141,811	14.4, 18		17,471	14,444	73,56	1., 4.4	to 1, 1884		11,4 m	74, 288 11, 381	13,7%	11,407		27, 142 21, 842 31, 858 5, 714		4,586 12,811 6,770	4,886 10,496 14,937 910	2,444
			SH Industry		TOTALS	All manufacturing industries	Mandia turing industries	and all and or ters	Darable goods industries	orders	Nondurable goods industries	orders	Darring without and an arrival	MARKET CATEGORIES	Home goods and apparel	except automotive	and intermediate products	intermediate products	SUPPLEMENTARY SERIES ²	Household durable goods indus- tries. Capital goods industries. Nondefense. Defense:	INDUSTRY GROUPS AND INDUSTRIES	Durable goods industries 32 Stone, clay, and plass 33 Frienzy mertals 1334 Hask furnaces, etc. [mils.] 1315 Non-trens and plan network	F 22	Construction, mining, and material-handling equipment. Metalworking machinery

See footnotes at end of table.

2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET (ATEGORIES, AND SI PPLEMENTARY SFRIES -- CARLIAGE

(Millions of dollars)

				Seaso	Seasonally adjusted	ted						No	seasonal	Not seasonally adjusted	g 1			
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		1980P	1980r	1980	1980	1980	1980	1980	Dec. 1980P	Nov. 1980 ^r	0ct. 1980	Sep. 1980	Dec. 1979	Nov. 1979	0ct. 1979	Sep. 1979	1980	1979
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery Electrical transmission and distribution equipment and	10,385	11,459	11,098	776,6	12,942	30,444	30,703	10,170	11,094	11,738	10,642	9,837	9,387	10,047	10,402	1 . 38	115,78
363		1,865	1,750		1,609		4,969	5,369	1,706	1,665	1,897	1,642	1,519	1,644	1,795	1,736	200	24,653
365	Radio and TV	3.317	3,900		736		2,234	1,907	81.8	3,623	3,910	3.725	3.282	5.693	3.106	7.38	4 5	7,445
367	Electronic components Transportation equipment	1,631	2,020	1,925	1,636	5 57b +8.189	4,950	5,276	1,497	1,963	1,787	1,708	1,660	1,614	1,666	18,453	183 48	20,416
37.31	Shipbuilding and military	5,017	4,624	3,286	5,272	12,927	14,748	19,574	5,357	3,847	5,929	5,839	6,286	8,158	6,338	6,189	5 + 18	46, 394
3795	tank vehacles	1,771	636	716	2,389	3.1.3	4,457	2,427	1,583	6 34	266	2,269	586	700	955	766	1. 405	8,404
	products	3,969	3,600	3,581	3,573	11,150	10,401	6,779	4,002	3,641	3,726	3,770	3,359	3,244	3,290	3,387	4 . 4 36	37,149
33.66	All other durable goods	4,062	7,917	7,949	7,451	33,428	21,669	20,325	7,160	7,755	8,346	8,068	6,649	7,370	8,518	8, 54.1	, , , , , ,	91,170

Preliminary, Revised,

The supplementary series are regroupings of the separate industry categories as follows:
Household durable goods industries-Household furniture, Extrem article, and pottery, cutlery, handtools, and hardware; household anable goods industries-Household furniture, Extrem article, and pottery, cutlery, handtools, and hardware; household anable goods industries-Household furniture, Extreme article, and pottery, cutlery, and hardware; household anable goods industries-Household furniture, Extreme article, and many and hardware; household anable goods industries-Household furniture, Extreme article, and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, opthalmic goods, watches, and his results are also an article, and hardware are also an article, and hardware are also an article, and hardware are also an article, and hardware are also an article, and hardware are also an article, and hardware are also an article, and hardware are also ar Symperity and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-wonth variations,

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	Typistry (But Wp Indistribs -										,	-			1	t-		
	Durable goods industries																	
5 5	Electrical machinery	34,737	19,531	14,584	18,534	34, 23.	17,4464	F , v 31	34,559	33,845	34,46 5	14,400	# C 2	<i>(</i>)	56.23	10,14*		4,114
	Instribution equippent and		7.873	7.96,3	7,825		7.557	7,531	7,418	7,254	7 7817	7,771	7,900		7,423	7,434	· Inhan .	,434
the state of	Housely 11 appliances		454	444	480	133	310	24	403	4.711	348	17.	71117		- 11	414	2 5	-7
343	Radio and TV.		261	394	+38		345	345	546	533	310	25.0	1.55		2 34	~	- G +	
Jr. b	Communication equipment		19,677	18,991	18,659		17,592	16,123	15,503	15,489	70,159	19,940	14, 368.		Pr 1,09	1111, 11	1, 114	17 7 7 X X X X X X X X X X X X X X X X X
367	. saspartation equipment	113,058	10,380	111,633	113,058	10,792	10,014	102,308	48,840	94,748	113,687	112, 307	113,242	111,815	103,4401	101, 074	1 0,344	3(1), 4(1),
172, h	Anteralt, missiles, and		681 65	89,150	90,632	48,827	41,302	77, 924	3,098	09,254	27.24	4,031	2.00	24, 133	- Ç,		1,100	2,371
37.31	Shape and end end tare, tane, vehicles	14,170	13,110	13,228	13,203	11,205	11,237	11,247	11,140	10,845	11,877	13,102	15,224	12,443	11,306	11,000	11,000	10,000
35	Instruments and related	h, 353	4,195	6,195	1, 232	r, 245	6,459	5,4%	1831	5,428	2 mg 4	540,4	Paragraph	\$ 5.2.	, G.P. *	1,855	ole .	
0.5	All other durable goods	2,418	2,796	2,799	2,817	3,084	3,514	3, 117	5,247	1,361	2,71.	2,721	2,*10	2,471	1, 354	· 1 · 2	3,411	2 10
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	17,114	14,411	18,041	18,241	18,27	35,741	34,534	34,452	£813	18 to 2 s	39,674	18, 34×	28,140	Jr. 14	34,210		-
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(Bised on seasonally adjusted data)

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	N. N.	Oct.	Sept		3 month		I ronths		
Itom and industry group	14 C. 1480P	No. L 080 ²	Oct. 1980	Sept bac. 1980	Line (1.7 Lake)	** . F = F	194	Wer use	Aver the
Shipments: All contactoring industries. Durable goods industries. Nondurable goods industries.	+0.5 -0.4 +1.4		-2.6 -3.8 -1.3	+1.2 +1 +1.2	, 6 • 3 . • 1 . 7	-3 1 -3 2	+0.7 +0.6 +0.8	1.9 1.9	1, 2
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Unfilled orders: Durable goods industries	-1.1	٠١, , ا	+(1, 4	+11.7	·0.,	- to, 5	+6, .4	12.2	0,9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entoriess	nipments ru	141	Uniill	ed order (months'		itio ¹
Industry group	Dic. [480	Vov. 1980	ust. 1980	5cpt ,930	Dec. 1986	Yov. 1980	980 1980	Sept. 1983
All manufacturing industrie	1.55	1.55	1. 11	1.60	3.54	3.51	3. 1	3.54
Durable goods industries. Stone, clay, and glass products Primary metals. Fabricated metals. Machinery, except electrical Ilectrical machinery. Transportation equipment Instruments and related products.	2.04 1.43 1.61 1.88 2.63 2.18 2.26 2.24	2.02 1.37 1.64 1.90 2.64 2.04 2.14 2.33	2.01 1.40 1.70 1.88 2.62 2.06 09 2.31	2 10 1,38 1,78 2,100 2,68 2,43 2,41 2,33	4.21 0.62 2.44 2.98 4.22 3.90 13.08 1.70	4.17 0.66 2.48 1.99 4.21 3.66 12.61 1.70	4.18 0.68 2.52 3.02 4.7 3.02 1. 45 1. 7	4, 20 0 (6e 0, 40) 3, 40 4, 14 3, 71 1, 61 4, 7e
Nondurable goods industries. Food and kindred products. Tobacco products. Textile mill products. Paper and alled products Chemicals and alled products. Petroleum and coal products. Rubber and plastics products, n.e.c.	1 05 0.94 2.89 1.56 1.23 1.28 0.54	1.07 0.98 3.22 1.49 1.24 1.32 0.53	1.07 0.99 3.0 1.48 1.23 1.30 6.7 1.18	1.09 0.96 3.25 1.48 1.22 1.35 0.52 4.20	0.71 (\) (\) (\) (\) (\) (\) (\) (\)	(\) (\) (\) (\) (\) (\) (\) (\) (\) (\)	(\) (\) (\) (\) (\) (\) (\) (\) (\) (\)	(7) (7) (72) (72) (74) (7) (7)

⁽NA) Not available. Preliminary. Revised. (%) Not applicable.

¹Excludes the following industries with no unfilled orders; bood and lumber products; glass container; metal curs, nairels, and drums firm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastic products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthy change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.





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Manufacturers' Shipments, Inventories, and Orders

JANUARY 1981

M3-1(81)-

U.S. Department of Commerce BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured products in January declined \$0.5 billion or 0.3 percent from December to \$161.6 billion the Department of Commerce, Bureau of the Census reported today. This is the first decline in new orders since the 4-month series of declines recorded in February through May of last year.

New orders for manufactured durable goods in January were down \$1.5 billion or 1.9 percent to \$81.1 billion. The largest decline was reported in the primary metals category, where steel orders dropped \$1.6 billion or 24 percent to \$5.2 billion. This is the third consecutive monthly decline for that industry and the largest reported since a 27 percent drop in March 1975. The volume of steel orders for January 1980 was \$5.8 billion and January 1979, \$7.3 billion.

The other major decline in durable goods new orders came from the transportation equipment industry, which decreased \$1.1 billion or 6.3 percent to \$16.1 billion. Most of the drop was caused by declines in the shipbuilding and motor vehicle industries.

New orders for machinery showed a large increase for January. Electrical and nonelectrical machinery orders were up 7.8 percent and 7.4 percent, respectively, with nearly all types of machinery showing order increases.

Within the capital goods industries, new orders for nondefense capital goods were up \$2.2 billion or 10.3 percent to \$23.9 billion, reflecting both machinery and commercial aircraft order increases. Orders for defense capital goods dropped 29 percent following a 31 percent increase last month.

Shipments of manufactured goods in January increased \$1.8 billion or 1.1 percent to \$161.1 billion. The increase in the petroleum industry of \$2.0 billion or 12.8 percent to \$17.3 billion more than offset declines reported by many durable and nondurable industries. The largest declines within the durable goods category were in steel shipments, down \$0.5 billion or 7.0 percent to \$6.2 billion; and motor vehicles, down \$0.3

billion or 3.3 percent to \$9.3 billion. Within the nondurable goods category, shipments by the chemical industry were down \$0.6 billion or 3.8 percent to \$15.0 billion, following a 10.4 percent increase in December.

For Wire Transmission 2:30 P.M. E.S.T. Wednesday March 4, 1981

Manufacturers' backlog of orders showed a small increase for the month of \$0.5 billion or 0.2 percent to \$291.3 billion. The only significant increases occurred in the machinery categories where the unfilled orders level for the nonelectrical category increased \$0.8 billion or 1.4 percent, and for the electrical category \$0.8 billion or 1.9 percent. The backlog of steel orders declined in January \$1.0 billion or 5.3 percent.

The book value of manufacturers' inventories in January rose \$4.5 billion or 1.9 percent to \$249.0 billion. This is the largest 1-month percentage increase since the 2.3 percent recorded in December 1974. Within the durable goods categories, industries showing increases of greater than 3.0 percent were aircraft, up \$1.2 billion or 5.1 percent; steel, up \$0.4 billion or 3.3 percent; and motor vehicles, up \$0.2 billion or 3.2 percent. Within the nondurable goods category, 5 of the 10 major industries reported increases larger than 3.0 percent.

By stage of fabrication, both the raw materials and work in process categories increased significantly. The value of raw materials rose 2.3 percent, while work in process went up 2.7 percent. The value of finished goods inventories increased only 0.3 percent.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for February is scheduled for release on March 20, 1981, and the full report is scheduled for release on March 31, 1981.



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

TABLE 1. VALUE OF MANUFACTURERS' SHIPHENTS FOR INDISTRY GROUPS, WARKET CATEGORIES, AND STIPPLEMENTARY SERIES

(Willions of dollars)

							(Willions	of dollars	1									
				Seasor	Seasonally adjusted	ed						Not	Not seasonally	y adjusted1	17			
010			Monthly	hly			Quarterly					Monthly	A.				Annual	13
SIC	Industry	Jan.	Dec.	Nov.	06.1.	21	111			Last 4 mc	months		Last	4 months	a year ago			
		1981P	1980r	1980	1980	1980	1480	1,480	Jan. 1981P	Dec.	1.480	0, t.	Jan. 1480	Dec . 1979	Nov. 1979	Oct.	1980.	1979
	TOTALS																	
	All manufacturing industries	161,110	159,323	157,722	136,647	473,742	445,085	-26,65-	14×, 15,	1,2,4,5	156,654	162,184	134,624	134,638	1+3,286	150,75+ 1	1,798,539	1,642,001
	excluding transportation	145,618	143,486	141,605	140,264	425,355	469, 520	386,151	144,134	137,444	1-0,121	144, 527	125,776	125,648 1	127,976	133,933 1	1,619,352	1,497,540
	unfilled orders	82,847	82,642	82,133	81,636	246,411	231,534	224,205	75, 311	44,659	81,486	777 79	1,071	73,390	74,437	79,380	941,448	893,021
	Durable goods industries	80,369	80,027	79,741	74,447	2 49, 65	221,173	210,706	72, 335	26,053	78,674	82.721	70,187	70,347	72,706	78,660	902,723	887,777
	orders	67,073	968,99	66,411	056,24	199,247	185,402	179,105	454,04	64,525	65,384	67,456	38,514	59,377	990'09	63,949	757,071	722.730
	Nondurable goods industries	90,241	79,296	77,981	77,200	234,477	223,923	215,478	,	76,402	77,980	74,468	64,442	69,311	70,580	72,094	895,816	804,224
	orders	15,774	15,746	15,722	15,646	47,1114	46,132	45,101	14,655	10,134	15,402	16,468	14,507	14,013	14,871	15,431	184,377	170,291
	MARKET CATEGORIES															-		
	Home goods and apparel	11,511	29,038	11,406	11,649	34,306	32,790	31,461	4, 481 26, 825	28,592	11,484	13,016	9,418	9,766	11,237	12,189	133,379	125,723
	except automotive.	23,213	22.771	22,894	22,765	34,916	31,439	64,248	10, 176	23,589	22,196	22, 422	18,938	21,743	19,467	20,714	263,897	236,754
	and intermediate products	13,761	13,613	13,370	13,266	40,249	35,992	33,546	11,356	12,356	13,062	13,889	11,092		12,543	13,637	147,692	148,806
	intermediate products	72,747	71,172	70,542	69,316	210,930	194,460	141,641	000*69	67,478	07.170	64,423	65,019	61,118	62,216	64,078	801,557	730,782
	SUPPLEMENIARY SERIES.							-							-			
	Household durable goods indus- trites. Capital goods industries. Nondefense.	5,204 25,842 22,325 3,517	5,009 25,498 21,772 3,726	4,998 25,716 21,858 3,858	5,212 25,618 21,842 3,776	15,219 76,832 65,472 11,360	14,501 '73,869 63,244 10,575	13,928 72,176 62,015 10,161	23,257	4,640 26,432 22,456 3,976	5,202 25,284 21,497 3,787	5,786 25,758 21,967 3,791	4,393 21,645 18,836 2,809	4,384 24,205 20,804 3,401	4,957 22,434 19,344 3,090	5,485 23,416 20,355 3,061	58,835 296,226 254,381 41,845	55,938 267,807 232,315 35,492
	INDUSTRY GROUPS AND INDUSTRIES																	
32	Durable goods industries: Stone, clay, and glass																***************************************	
322 33 331	products	4,590 425 12,534 6,172	4,567 412 12,586 6,635	4,383 398 12,284 6.286	4,285	13,235	12,281 1,224 32,184	11,550 11,113 31,392	3,803	3,968	4,331 381 11,515	399	3,756 326 12,208		4,132	4,552 360 12,073	49,509	48,185 3,989 140,122
341	Nonferrous and other primary metals Fabricated metal products Metal cans. harrels and		4,863	4,905	4,944	14,712	15,135	14,074			4,709	5,028	5,495	4,750	4,809 9,031	5,131	64,44/ 60,946 1111,466	58,001 109,463
35 351 352 353	drums. Machinory, except electrical. Engines and turbines. Farm machinery and quipment. Construction mining and	890 15,418 1,376 1,205	895 14,729 1,135	797 14,650 1,184 1,169	813 14,749 1,203 1,165	2,505 44,128 3,522 3,479	2,360 42,099 3,297 3,281	2,387 40,734 3,266 3,076	724 14,027 1,254 1,140	708 14,922 1,138 956	668 13,997 1,108	790 14,825 1,132 1,238	718 12,736 1,122 1,039	657 13,742 1969 984	714 12,527 1,006 828	806 13,911 1,163 1,222	9,806 169,318 13,362 12,967	10,046 157,695 13,156 13,258
354	material-handling equipment. Metalworking machinery. General industrial machinery.	2,787 931 1,149	2,676 948 1,226	2,448 972 1,216	2,573	7,697 2,903 3,722	7,658 2,584 3,584	7,676	2,628 826 1,026	2,478	2,318	2,591	2,617	2,502 846	2,279 841	2,799	31,534	31,813
See	See footnotes at end of table,														2001	-	1001111	043154

(Millions of dollars)

1987 10,627 10,384 10,813 10,747 31,944 30,742 29,819 9,734 10,375 10,922 11,229 11,2					Season	Seasonally adjusted	ted						Not		seasonally adjusted				
Mail Mail													3011		nanenena				
1987 1986 1980				Mont	thly			Quarterly					Month1	у				Annual	
1867 1867 1860	Industry			2	2	10					4	onths		Last	months	year			
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			1981P	1980r	1980	1980	1980	1980	1,980	Jan. 1981p	Dec. 1980r	Nov. 1980	0ct. 1980	Jan. 1980	Dec. 1979	Nov. 1979	Oct. 1979	1980	1979
1,660 1,680 1,680 1,78	INDUSTRY GROUPS AND INDUSTRIES-Continued	NDUSTRIES																	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Durable goods and industries Continued	stries																	
1,500 1,845 1,823 1,773 5,447 5,122 5,028 1,156 1,175 1,801 1,801 1,802 1,170 1,001 1,905 1,170 1,170 1,17	Electrical machinery	yission and	10,627	10,384	10,813	10,747	31,944	30,742	29,819	9,734	10,375	10,952	11,229	9,204	9,720	9,614	9,790	123,390	110,713
1,852 1,852 1,855 1,85	distribution equipment and industrial apparatus	Ipment and attus	1,640	1,845	1,829	1,773	5,447	5,142	5,028	1,563	1,745	1,803	1,803	1,609	1,534	1,696	1,720	20,984	19,915
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Radio and TV	1 pment	3,148	3,020	3,185	3,230	2,314	2,212	1,886	712	3,141	3,151	937	520	3,183	698	703	8,498	7,648
y 4,366 4,769 13,962 12,540 3,784 4,784 7,33 4,784 7,33 7,24 9,46 7,53 7,54 7,13 7,24 7,13 7,24 7,13 7,24 7,13 7,24 7,13 7,24 7,13 7,24 7,13 7,24 7,13 7,24 7,13 7,24 7,13 7,13 7,24 7,13 7,24 7,13	Electronic components Transportation equipment Motor vehicles and parts	pment	1,825	1,825	1,908	1,882	5,615 48,387 29,222	5,518 44,575 26,243	5,499	14,051	1,810	1,934	1,968 17,662 11,191	1,608 13,853 8,832	1,563	1,557	1,578	21,973	17,820
Y. 870 773 748 691 2,459 2,459 752 873 760 731 769 946 763 973 973 2,107 3,734 3,734 3,734 3,734 3,734 1,309 2,109 1,228 1,304 1,329 1,329 1,304 <td>Aircraft, missiles, and parts</td> <td>s, and</td> <td>4,338</td> <td>4,508</td> <td>4,685</td> <td>4,769</td> <td>13,962</td> <td>12,942</td> <td>12,550</td> <td>3,686</td> <td>4,791</td> <td>4,711</td> <td>4,667</td> <td>3,219</td> <td>6,049</td> <td>3,684</td> <td>3,607</td> <td>51,134</td> <td>43,804</td>	Aircraft, missiles, and parts	s, and	4,338	4,508	4,685	4,769	13,962	12,942	12,550	3,686	4,791	4,711	4,667	3,219	6,049	3,684	3,607	51,134	43,804
3,674 3,735 1,629 1,620 10,984 10,463 9,944 3,736 3,736 1,736 1,736 1,732 1,732 1,336 1,336 1,324 1,324 1,136 1,137 1,136 <	Shipbuilding and military tank vehicles	military	870	773	748	691	2,212	2,459	2,459	752	873	092	751	769	976	763	829	9,738	8,693
8,096 7,956 7,921 1,925 66,118 65,186 59,809 21,086 22,224 22,427 22,672 18,903 20,132 20,132 22,011 21,825 66,118 65,186 59,809 21,086 22,224 22,427 22,437	Instruments and related products	gineering	3,674 2,137 1,363	3,735	3,629 2,102 1.356	3,620 2,061	10,984 6,370 4.077	10,463	9,944	3,308 2,018 1,136	3,714 2,167 1.377	3,759 2,098 1,483	3,771 2,104 1.473	3,030	3,248	3,304	3,242 1,824 1.181	42,026 24,156 15,750	36,253 21,082
25,442 5,447 5,446 5,446 5,448 65,148 65,148 65,148 59,809 21,048 22,242 5,447 5,547 4,770 5,292 5,163 5,222 6,113 5,448 1,858 1,248	All other durable goods industries	spoo	960*8	7,956	7,921	7,965	23,842	21,936	20,753	6,797	7,185	7,845	8,507	6,832	6,795	7,585	8,588	89,843	90,885
1,185 1,185	Nondurable goods industries: Pood and kindred products Neat products	istries:	22,412 5,442 2,586	22,378	22,115	21,825 5,495 2,637	66,318 16,429 7,652	65,186 15,499 8,190	59,809 13,566 7,739	21,086 5,322 2,136	22,204 5,522 2,265	22,427 5,429 2,563	22,672 5,637 2,775	18,903 4,770 2,114	20,352 5,292 2,215	20,518 5,163 2,438		252,071 60,124 31,134	234,828 62,002 27,659
. 1,185 1,264 1,171 1,123 1,166 3,124 1,172 1,172 3,144 1,172 1,173 1,17	All other foods		1,858	9,858	9,321	9,118	27,991	27,351	25,330	8,850	9,638	1,896	9,647	7,698	1,558	1,666		19,866	93,878
. 6,295 6,200 6,005 6,005 6,005 8,002 8,002 8,002 8,002 9,000 9,00	Tobacco products	tst	1,185	1,264	1,171	1,231	3,666	3,542	3,344	1,135	1,281	1,206	1,290	1,002	3,786	1,078		13,781	12,173
. 1,364 1,395 1,335 2,836 2,836 3,867 3,867 2,1635 1,243 1,343 1,345 1,3	Paper and allied products	oducts	6,205	6,201	6,005	6,055	18,261	17,791	17,239	5,837	5,720	5,926	6,160	5,705	5,156	5,540		70,991	66,033
. 14,999 1,534 1,536 1,637 1,348 1,534 1,536 1,534 1,536 1,537 1,5	Pulp, paper, etc Paperboard containers	ners	2,941	1,395	1,335	2,809	4,086	3,867	3,867	1,285	1,264	2,819	2,883	2,583	2,488	2,587		33,462	30,165
5,339 5,256 4,803 4,991 15,030 13,120 13,154 5,061 4,951 4,777 4,658 4,777 4,658 4,777 4,658 4,311 4,423 4,112 5,000 13,124 4,091 13,124 15,12	Chemicals and allied products.	d products	14,999	15,589	14,121	14,161	43,871	39,699	38,234	13,881	14,301	13,359	13,977	12,918	12,533	12,515		162,390	149,181
3,646 3,574 3,810 3,776 11,180 11,087 11,088 10,236 10,088 10,085 11,186 10,088 10,085 11,186 10,085 11,186 10,085 11,186 10,085 11,186 10,085 11,187 9,596 9,596 10,559 11,180 11,080 1188,272 1	Cept pigments Drugs, soap, and tolletries. Petroleum and coal products	tolletries products	5,339 4,020 17,329	5,256 4,286 15,361	4,803 3,678 15,590	4,991 3,874 15,038	15,050 11,838 45,989	13,200	13,154 10,968 43,724	5,061 3,799 17,234	4,951 4,020 15,748	4,554 3,604 15,565	4,777 4,083 14,877	4,658 3,322 13,827	4,331 3,502 13,489	4,425 3,406 12,779		56,003 45,303	51,793 40,147 134,041
10,796 10,934 11,109 11,067 33,110 32,044 31,268 9,600 10,085 11,665 12,197 9,596 9,664 10,559 11,060 128,272	n.e.c		3,646	3,574	3,810	3,796	11,180	11,088	10,236	3,315	3,239	3,694	3,992	3,677	3,279	3,532	3,947	43,995	44,742
	All other nondurable goods industries	le goods	10,796	10,934	11,109	11,067	33,110	32,044	31,268	009"6	10,085	11,665	12,197	965 * 6			11,060	128,272	116,234

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are adjusted for trading-day or calendar-month variations for calendar-month variations.

The appliances; refer are regroupings of the separate industry categories as follows
Household durable goods industries—Household furniture; kitchen articles and pottery; cutlery, cutlery, cutlery, cutlery, cutlery, cutlery, cutlery, and tooks and hardware; nado and TV; opithalnic goods, watches, and clocks, and miscella-

means persons toops are comparable to the previous producers' capital goods and the defense products (old series) categories.

Mendefense products—tachinery, except electrical (excluding from machinery and equipment and machinery is parts, and substituted outpours, communication equipment, alreated and aircraft and streating and retirating and retiration equipment, alreated and aircraft parts, and shipbuilding. The data are comparable to those published annually in the Ma-175, "Shipments to Pederal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"), for the specifical industries

3

Table 2. VALUE OF MANTERCHIRENS! NEW ORDERS FOR INDISTRY GROUPS, MARKET CATEGORDES, AND SUFDERSTARY SERIES.

4

(Millions of dollars)

							(Millions	ns of dollars	18.1									
				Seaso	Seasonally aljusted	pa						Yot	t seasonally	y adjusted1	7			
			Mons	Monthly			quarterly					Wonthly	425				lanual	al
510	Industry	Tan	There			111		:		last 4 m	months		Last	4 months	a year ago			
		1981p	1980	1980	1980	1980	1980	1986	Jan.	1980r	1980	0ct. 1980	Jan.	Dec.	Nov. 1979	1974	1480	147
	TOTALS																	
	All manufacturing industries	161,626	162,157	158,775	138, 34	1 B. 185	945 649	420,815	171, 75	1 14. " 4h	151,854	£	145, 143	142, 380	144,297	105, SUR	, 8 9, 772	1,732,11
	Manufacture of the state of the	145,544	144,988	142,818	143,047	430,853	401,522	376,313	150, 2	138,64	140,256	345,073	129,482	125,005	127,956	134,085	08, '079'	1,515,492
	unfilled orders	83,363	85,476	43,184	×2, 433	251,455	235,995	.18,336	78,826	700°, 28	86., 583	, 44g	, x	# T w	875.	81,472	952,681	933,435
	Durable goods industries	81,106	82,654	81,047	84.,593	244, 3 44		.06,138	75,425	, x	18,070	£ £	18,23	13,1 10	3,14"	81,256	914,731	926,580
	orders	67,810	69,523	67,717	67,186	204,426	189,681	174,546	64,147	66, 403	\$79,475	1,463	£54,259	n2,136	50,537	nh, 545	109,079	761,533
	Nondurable goods industries	80,520	7 4,503	-7,728	77,361	234,542	724,129	214,517	4 100	74,347	1,784	1,384	57,711	18,480	,1,100	72,130	895,041	805,435
	orders	15,553	15,953	15,469	15,807	47,224	40,348	43,740	14, 579	15, 144	15,711	16,534	14,835	13,682	15,391	19,427	183,512	171,502
	Industries without unfilled Orders	to 4 467	63,550	62,259	51,354	147, 363	127,781	1,0,877	1,21	11,268	12,078	13,300 J	54,885	15,298	602,28	4, 4, 15, 13	111,439	533,933
	MARKET CATEGORIES																	
	Home goods and apparel	11,586	11,249	11,359	11,550	54,143	83,844	31,485	9,968	28, 381	11,708	12,74	5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2,674	10,858	11,822	152, 44	126,005
	Equipment and defense products, except automotive	25,492	25,073	23,121	22,214	35, 379	31,503	25,655	13,741	25,88h 10,066	22,347	25,099	22,230	23,988	20,849	23,109	275,139	158,447
	Construction materials, supplies, and intermediate products	13,549	13,666	13,158	13,552	40, 376	35,450	33,146	11, 395	12,382	12,873	14,042	10,836	11,650	12,307	13,266	146,812	149,383
	intermediate products	71,105	11,577	71,480	70,433	213,490	197,526	18h, 251	69,169	58,041	19,435	71,260	78,334	11,489	62,917	+5,432	804,676	749,670
	SUPPLEMENTARY SERIES?									-			-					
	Household durable goods indus- tries. tries. Capital goods industries. Nondefense. Defense.	5,325 28,069 23,915 4,154	5,005 27,498 21,673 5,825	4,873 26,302 21,849 4,453	5,081 24,525 20,518 3,408	14,959 78,325 54,140 14,186	14,347 77,178 51,839	13,633 75,478 51,705	4,537 26,576 22,128 4,448	4,559 27,889 22,126 5,883	4,880 24,462 26,327 4,135	28,127 28,127 22,428 5,699	4,434 22,237 3,545	4,194 25,420 22,571 3,849	4,561 24,221 30,447 3,774	5,080 25,487 22,560 4,427	28,385 310,513 255,838	55,939 299,216 259,721 39,495
	INDUSTRY GROUPS AND INDUSTRIES																	
33	Durable goods industries. Stone, clay, and glass Primary metals Non-formule ond other received.	4,512 11,131 5,166	4,496 12,899 6,784	13,029 7,071	4,386 13,745 7,183	13,261 39,673 21,038	12,131 34,777 16,620	11,184 27,000 11,361	3,837 11,401 5,629	3,922 12,183 5,159	4,278 12,100 5,540	4,641 13,193 5,663	3,914 13,069 5,180	3,592 10,903 4,654	4,072 10,932 5,174	4,325 11,880 5,349	49,186 138,680 05,461	48,145 142,882 59,121
34 35 351	Z Z	4,836 9,781 16,224 1,593	5,008 10,514 15,100 956	4,872 9,884 14,822 1,323	5,478 10,121 14,806 1,310	15,358 30,519 44,7 3,589	15,436 26,046 41,925 3,298	13,267 25,271 37,437 2,911	4,713 8,988 14,943 1,321	5,016 9,754 15,021 1,157	4,481 9,614 13,985 1,102	5,404 10,379 15,116 1,426	6,227 8,330 14,153 1,169	5,205 8,964 13,802 1,081	4,675 8,758 13,093 888	5,297 9,690 14,245 1,256	51,144 110,702 167,648 13,208	59,802 111,622 163,304 13,174
354	Construction, mining, and material-handling equipment. Metalworking machinery	3,176	3,016	2,505	2,899 851 1,234	8,420 2,568 3,633	7,745	6,766 2,411 2,867	3,060 809	2,916 901 1,128	2,332	2,896 836 1,229	2,977	2,734 867 977	2,228	3,029 1,025 1,193	31,887 10,562 13,453	32,301 11,486 13,491
See	See footnotes at end of table,																	

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY CROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

			1979			115,785	20,653	12,758	34 076	20.416	216,523	65,796	8,964	37,149	91,170
	Annual		1980			127,506	21,254	13,602	40,922	21.845	189,192	52,897	12,415	42,380	89,437
			Oct. 1979			10,047	1,795	1,115	3.166	1.666	19,261	0,338	955	3,290	8,518
ed1		a year ago	Nov. 1979			9,387	1,644	1,000	2.693	1.514	16,341	5,158	700	3,244	7,370
Not seasonally adjusted ¹		t 4 months	Dec. 1979			9,837	1,519	1,057	3.282	1,660	16,030	6,286	686	3,359	6,649
ot seasona	Monthly	Last	Jan. 1980			10,062	1,647	1,090	3,115	1,926	15,961	5,547	744	3,251	6,892
Ž	Mont		0ct. 1980			11,738	1,897	1,224	3,910	1,787	19,089	5,929	266	3,726	8,346
		Last 4 months	Nov. 1980			11,094	1,665	1,121	3,623	1,963	15,603	3,847	634	3,641	7,755
		Last 4	Dec. 1980r			10,344	1,744	1,082	3,432	1,485	16,153	5,336	1,513	3,944	7,110
			Jan. 1981P			10,811	1,882	1,9084	3,634	1,725	15,634	4,924	1,020	3,243	896*9
		1.1	1980			30,700	5,369	1,907	10,029	5,276	44,502	19,574	2,427	6,779	20,325
	Quarterly	111	1980			30,444	696,4	2,234	9,712	4,950	48,024	14,748	4,457	10,401	21,669
pa		λ1	1980			33,122	5,506	2,189	10,780	5,564	48,133	12,907	3,041	11,090	23,868
Seasonally adjusted		***	1980		-	11,098	1,851	732	3,532	1,925	15,007	3,286	716	3,581	7,949
Season	ıly	NON	1980			11,459	1,750	1,240	3,900	2,020	15,957	4,624	636	3,600	7,917
	Monthly	Der	1980r			10,565	1,905	785	3,348	1,619	17,169	4,997	1,689	3,909	8,002
		.Tan.	1981 ^p			11,394	1,861	858	3,800	1,700	16,082	5,029	888	3,658	8,324
		Industry		INDUSTRY GROUPS AND INDUSTRIESContinued	Durable goods industries Continued	Electrical machinery Electrical transmission and distribution continent and	industrial apparatus	Radio and TV	Communication equipment	Electronic components	Transportation equipment	parts	tank vehicles	products	All other durable goods industries
		SIC				361,2	363	365	366	367	372,6	3731	3795		33 25

tradiscate caledareanth variations.
The supplementary series are regrouping of the separate industry extegories as follows.
The supplementary series are regrouping of the separate industry externa marrates and pottery, cultery, handtools, and hardware; household durable goods industries—flourehold furniture; externa marrates and pottery; cultery, nandtools, and hardware; radio and IV. opthalnac goods, watches, and closes and pottery; cultery. Samewests and new orders are the totals for the period and are adjusted for trading-day and calendar-mouth variations, unfilled orders and inventories are as of the end of the period and are not adjusted for rRevised. Ppreliminary.

(opital) roofs industries—Comparable to the previous producers" capital goods and the defense products (obld series) categories; construction of a comparable to the content of the comparable of the comparable of the content of the content of the comparable of the content of t neous personal goods.

5

6

(Millions of dollars)

							(Willions	(Willions of dollars	1									
					Seasona	Seasonally adjusted	p		1				Not	seasonally	iv adjusted1	1.1		
			Mon	Wonthly				quarterly						Monthly	1 ly			
SIC	Industry			:			:					Last 4 -	nonths		Last	t 4 months a	a year ago	
		1981P	1980r	1980	1980	1980	1980	1980	1979	1979	Jen.,	Dec.,	Nov. 1980	oct. 1980	Jan. 1980	Dec. 1979	Nov. 1979	Oct. 1979
	TOTALS																	
	All manufacturing industries	291,260	290,735	287,907	286,849	285,497	281,044	286,907	279,710	273,033	291,883	288,372	286,027	286,830 2	283,465	277,153	274,721	273,707
	excluding transportation	177,862	177,930	176,434	175,216	172,439	171,+33	181,265	176,804	174,193	176,850	174,923	173,720	173,588 1	177,912	173,713	173,347	173,363
	Durable goods industries	280,492	279.746	277,124	275,813	274,622	270,383	274,884	267,879	261,7+2	261,261	277,772	275,393	276,003 2	271,821	265,777	263,015	262,521
	Nondurable goods industries	10,768	10,989	10,783	11,036	10,875	10,661	12,023	11,831	11,291	1 6.22	1 ,600	10,634	10,827	11,644	11,376	11,706	11,186
	MARKET CATEGORIES																	
	Home goods, apparel and consumer staples	3,960	3,934	3,928	3,988	4,120	4,247	4,717	4,630	996*+	2.5	Ť.	3,761	7,060	4,295	.,223	5115	4.907
	Equipment and defense products, except automotive	166,757	164,413	162,043	161,652	161,670	159,412	159,073	154,999	150,912	1663"	164,819		,,,,,,	58,416	155,241	153,125	152,182
	Construction materials, supplies, and intermediate products	19,799	20,003	19,957	20,168	19,883	20,423	20,771	20,910	21,130	19,804	19.765	19,738	19,928	20,391	23,648	20,411	20,648
	intermediate products	100.744	102,382	101,979	101,041	99,82~	96,962	102,346	171,66	96,026	100.322	190,161	100,047	1 157,99	100,363	97,041	96,670	95,970
	SUPPLEMENTARY SERIES ²																	
	Household durable goods indus- tries togetal goods industries Nondefense.	3.093 195,847 134,609 61,238	2,971 193,616 133,017 60,593	2,975 191,621 133,120 58,501	3,100 191,031 133,127 57,904	3,233 192,126 134,355 57,771	3,387 188,821 135,810 53,011	3,680 185,519 136,118 49,401	3,475 179,310 131,819 47,492	3,923 172,754 126,755 46,000	2,843 197,105 134,893 62,212	2.748 193.785 132.815 60 970	2,830 192,328 133,245 59,083	3,152 193,150 1134,415 58,735	3,240 183,532 135,004 48,528	3,199 179,356 131,567 47,789	3,385 177,142 129,800 47,342	3,780 175,353 128,695 46,658
	INDUSTRY GROUPS AND INDUSTRIES													_				
32 33 331 331	Durable goods industries Stone, clay, and glass. Primary metals. Blast furnaces, steel mills. Nonferrous and other primary.	2.501 29,335 18,091	2,578 30,738 19,097	2,649 30,425 18,948	2,653 29,680 18,163	2,553 27,731 16,756	2,702 25,139 14,358	3,066 29,528 17,349	2,917 29,962 18,007	3,080 30,276 18,877	2,487 29,171 17,820	29,435	2,499 28,557 17,735	2,552 27,974 16,928	2,935 30,199 17,646	2,778 28,737 17,071	2,792 28,534 17,344	2,852 28,806 17,491
34 35 351		9,188 27,462 57,925 16,697	9,539 27,617 57,116 16,479	9,394 27,338 56,747 16,659	9,427 27,396 56,573 16,519	8,892 27,178 56,519 16,413	8,591 28,027 56,695 16,412	9,397 28,737 59,994 16,767	9,334 28,382 58,779 16,630	8,861 27,976 57,585 16,785	9.271 27.459 57.584 16.741	9.263 27.423 56.671 16.674	8,764 27,241 56,570 16,656	8,993 27,370 56,582 16,661	9,795 27,954 59,759 16,875	9,063 28,193 58,343 16,828	8,608 27,836 58,279 16,714	8,743 28,108 57,711 16,832
354	material-hand, mining, and material-hand, machinent. Metalworking machinery	9,169 6,968 6,262	8,780 6,922 6,083	8,440 6,917 6,135	4,383 7,124 6,126	8,057 7,257 6,172	7,968	8,877 7,798 7,183	8,423	8,041 6,757 7,239	9.141	8,710	8,271 6,993 6,129	8,257 7,181 6,114	8,716 7,329 7.131	8,356	8,125 7,093 7,193	8,175 6,984 7,195
9 6 5	See footnotes at and of table																	

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES -- CONTINUED

(Millions of dollars)

					Seasons	Seasonally adjusted	p						Not	Not seasonally adjusted1	adjusted			
			Monthly	hly				Quarterly						Monthly	1 y			
SIC	Industry group	Jan.	Dec.	No.v.	0ct.	111	1	-	21			Last 4 mc	4 months		Las	Last 4 months a year	a year ago	
		1981P	1980r	1980	1980	1980	1980	1980	1979	1979	Jan.p	Dec.r 1980r	Nov. 1980	Oct. 1980	Jan. 1980	Dec. 1979	Nov. 1979	0ct. 1979
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery	40,477	39,710	39,531	38,884	38,534	38,830	37,944	35,631	34,858	40,454	39,374	39,406	39,264	36,119	35,265	35,148	35,373
	industrial apparatus		7,883						7,531	7,418	8.090	7.770	7,771	7,908	7.462	7.423	7.438	7.490
363	Household appliances		433						364	407	384		372	607	322	310	316	358
366	Communication equipment		20,004						16,123	15,803	279		19.840	19.368	320	339	357	433
367	Electronic components	10,049	10,174	10,380	10,268	10,225	10,792	11,014	10,308	77946	9,888	9,910	10,235		10,359	10,040	7766	9,887
372,6	Aircraft, missiles, and		117,805						906,201	048,84	115,033		112,307		.05,553	103,440	101,374	100,344
37.31	Sharts	90,270	89,578	680,68	89,150	90,632	88,827	81,804	77,929	73,098	91,814	90,575	90,031	768,06	81,141	78,810	76,575	75,102
3795	tank vehicles	14,051	14,032	13,116	13,228	13,203	11,205	11,237	11,297	11,146	14,010	13,742	13,102	13,229	11,040	11,064	11,023	11,086
25	products	6,324	6,341	6,165	6,195	6,232	6,295	6,459	5,985	5,830	6,257	6.323	6,092	6,209	6,188	2,967	5,855	5,916
39	Industries	3.070	2,841	2,796	2,799	2,817	3,084	3,514	3,317	3,297	2,816	2,644	2,721	2,810	3,114	3,054	3,197	3,411
phre	Pprellminary. Revised.																	

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and investories are of the end of the period and are adjusted for tradingday or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:
Household durable goods industries-Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware, household durable goods industries-Household furniture; kitchen articles and pottery; cutlery, handtools, and clocks, and clocks, and clocks. neous personal goods,

Captial goods influences—Comparable to the previous produced' captial, goods and the defence products of activities of captial goods influences, radio and TV, and electronic components), the modefence products—described to the captial for an activitie form matchinery and equipment, affords and authority and captial form and activities and captial form of communities and equipment, and activities and captial formatics are communities are comparable and activities and captial formatics. For any activities are comparable to the federal contraction equipment of formatics are comparable to the federal contraction of the federal contraction

Table at AMAL OF WANTEN THERE THE PARTY STORY, WARREL AND SHELLY, WE STRUMMARK SHELLS

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							SHOTTIN.	dollars)										
					seas mally	ly stusted	-						Not	seasonally adv	adjusted!			
2			W.arbly	vls			7	Justerly						Vontbly	1y			
<u>-</u>	Indust ry	fan.	bec.	Nov.	Oct.	II.		þ	A	111		Last + 50	wonthw		Last	. w months	a year ago	
		1981P	1980r	1980	1980	1980	1980	1986	1479	1979	fan. 1981p	1980r	Nov. 1986	Oct.	Jan. 1980	Dec. 1979	Nov. 1979	Oct. 1979
	TOTALS											5						
	Manufacturing industries	150,655	244,443	244,090	74.,876	243,615	243,630	.34,52.	P 85.4.25	21, 541	351,142	43,730	42,730	241,622	233,547	227,658	225,134	222,296
	cluding transportation	212,343	797, 507	675 th 11	108,586	(4,665	210,94	1 270, 50.	144, 34.2	14 , 70 5	.3,61	109. 75	108, 166	207,248	203,159	198,147	194,898	192,623
	unfilled orders	17 5,510	169,949	11 4 mins	118,155	188,	168,682	, bus, Srid 1	58,073	5.2,44.4	650,571	165,1	67, 350	186,561	1611, 445	156,529	155,154	153,073
	Inruble goods industries	164,983	161,907	160,977	160,137	166,691	150,404	167,127	1 51, 119	Thy Call	1,84,101	100, 50*	092,981	158,497	154,097	150,321	148,857	146,672
	Orders	154, 306	151, 325	150,428	149,599	150,081	104,701	146,064	1 [534,00.	35,537 1	901,54	149, 745	144,177	525,821	142,947	139,439	138,341	136,339
	Nondurable goods industries	84,038	82,586	× 5,1115	N.1,7 19	7 ° ° ° ×	43,226	×1, 195	76,369	16215	95, 31 s	C4 * # * VIII	41,470	83,125	79,450	1,337	76,277	75,624
	Orders	19,706	18,624	14,636	18,536	18,540	18,941	14,441	17,439	16,917	16,933	14 45	18,17.	18,136	17,498	17,090	16,813	16,734
	MARKET CATECORIES																	
	Home goods and appurel	18,351	18,118	17,880	17,482	17,845	18,286	18,168	17,584	29,4.5	18,0 14	17,464	17,064	17, 325	17,496	16,960	16,634	16,825
	Hquipment and defense products.		196,69	8 18 69 8 1 8 1 8	814,69	69,213	418.49			58.746	73.825	6951	69. 883	8070	67.903	61 060	04	58 917
	Automotive equipment	4,455	9,223	9,073	8,981	9,347	4,647	10,183	10, 347	11,249	9,736	9,216	9,141	9,102	10,554	10,349	11,157	11,472
	Other meterical contracts	20,083	20,035	19,704	19,491	14,649	14,954	20,166	19,646	18,94.8	20,158	19,725	19,104	19,099	19,581	19,348	18,861	18,676
	Intermediate products	98,758	156'56	45,847	065,84	065,36	905,76	34, 367	89, 511	85,470	197,66	96,336	95,465	94,852	92,575	89,647	87,761	86,074
	STPPLEMENTARY SFRIES					_												
	Household durable goods Indus- tries tropital goods industries. Nordefense.	9,222 80,063 67,625 12,438	9,155 78,209 66,171 12,038	9,002 78,117 66,284 11,833	9,014 77,405 66,158 11,647	9,058 77,401 66,091 11,310	9,267 75,370 64,782 10,588	9,311 72,177 62,102 10,075	9,180 68,640 59,178 9,462	8,852,64,996 56,443 8,553	9,060 79,574 67.324 12,250	8,854 77,292 65,510 11,782	8,710 77,687 65,962 11,725	8,781 77,173 65,619 11,554	9,088	8,880 67,927 58,666 9,261	8,670 67,429 58,231 9,198	8,646 65,829 57,019 8,810
	INDUSTRY GROUPS AND INDUSTRIES											-						
32 322 33 331		6,137 572 20,851 11,246	6,067 563 20,285 10,884	5,994 574 20,148 10,854	5,976 563 20,055 10,850	5,920 554 20,187	6,141 593 20,884 11,751	5,987 597 20,387	5,643 547 19,803 10,834	5,436 564 19,033	6,197 564 21,154 111,549	5,955 550 20,634 11,309	5,743 567 20,162 11,006	5,725 557 119,967 110,948	5,723 548 20,390 111,337	5,541 536 20,153 11,257	5,385 541 19,354 10,747	5,310 548 19,006 10,619
34 34 34 343		8,244	8,040	7,967	7,848	7,807	7,741	7,848	7,563	7,166	8,252	8,000	7,880	7,723	7,650	7,525	7,243	7,031
35 351 352	Machinery, except electrical Engines and turbines	1,525 38,548 2,539 2,831	1,468 38,352 2,529 2,822	1,372 38,691 2,553 2,947	1,346 38,582 2,453 3,027	1,267 39,107 2,496 3,154	1,439 38,940 2,558 3,195	1,502 37,609 2,703 3,114	1,554 36,624 2,701 3,108	1,397 35,527 2,630 2,913	1,465 38,660 2,539 2,896	1,286 38,227 2,512 2,811	1,165 38,332 2,555 2,773	1,143 38,025 2,448 2,836	1,494 37,428 2,676 3,182	1,360 36,530 2,689 3,096	1,317 36,018 2,634 2,846	1,246 35,443 2,558 2,805
354 356	Construction, wining, and material-handling equipment. Metalworking machinery General industrial machinery.	8,284 2,462 3,725	8,206 2,476 3,670	8,562 2,526 3,654	2,553	8,589 2,544 3,715	8,739 2,560 3,725	8,308 2,436 3,671	8,150 2,314 3,650	8,099	8,383	8,345	8,425 2,529 3,610	8,334 2,543 3,615	8,506 2,378 3,653	8,289 2,298 3,606	8,255 2,266 3,523	8,017 2,261 3,449
See	See footnotes at and of table						-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

(Millions of dollars)

							200	1	,									
					Seasona	Seasonally adjusted	q						Not	seasonally	adjusted			
			Monthly	'y			Ġ.	Quarterly						Monthly	ý			
SIC	Industry	Lon	Dog	No.	***	:	:			:		Last 4 mo	months		Last	4 months a	year ago	
		1981P	1980r	1980	1980	1980	1980	1980	1979	1979	Jan, 1981	Dec. 1980r	Nov. 1980	0ct.	Jan. 1	Dec.	Nov. 1979	Oct. 1979
	INDUSTRY CROUPS AND INDUSTRIES																	
	Durable goods industries			-														
36	Electrical machinery	22,594	22,135	22,107	22,140	22,095	21,861	21,620	20,598	19,462	22,264	21,763	21,799	21,908	20,726	20,241	19,804	19,610
363	industrial apparatus	3,924 I,951	3,904	3,867	3,928	3,955	3,982	3,868	3,770	3,637	3,918	3,888	3,838	3,897	3,813	3,758	3,720	3,691
366	Communication equipment	8,694	8,437	8,558	1,046	8,426	7,992	7,741	7,095	970	8,580	8,348	1,024	1,032	7,301	7,021	954	955
367 37	Electronic components Transportation equipment Motor vehicles and parts	36,678	35,229	34,541	34,290	3,383	3,386	3,240	3,099 29,916 8.012	2,897 28,638 8,872	36,585	3,437	3,359	3,383	3,110	3,068	2,976 30,236 8,812	29,673
372,6	Aircraft, missiles, and parts Shipbuilding and military	24,691	23,502	22,844	22,754	22,136	20,589	19,049	17,417	15,549	24,439	23,066	22,710	22,619	17,783	17,102	16,883	16,157
3795	Instruments and related	7,608	2,577	2,595	2,486	2,383	2,386	2,130	2,165	2,034	2,500	2,430	2,627	2,513	2,060	2,052	2,221	2,108
381-4	Scientific and engineering Photographic goods	8,463 5,991 2,044	8,438 6,051 1,965	8,448 6,019 2,005	8,353 5,953 1,979	8,290 5,890 1,982	8,393 5,859 2,083	8,237 5,597 2,155	7,765 5,291 1,986	7,471 5,021 1,941	8,449 6,033 1,999	8,248 5,972 1,862	8,294 5,934 1,945	8,274 5,899 1,959	8,021 5,417 2,136	7,580 5,217 1,885	7,500 5,142 1,878	7,447 5,050 1,907
25 39	All other durable goods industries	12,234	12,166	12,131	12,149	12,279	12,046	12,181	11,936	11,766	12,266	11,991	11,892	11,941	12,150	11,768	11,715	11,660
20 201 208 207	Nond	20,953 2,058 3,810 1,895	21,362 2,079 3,860 2,035	21,756 2,161 3,776 2,284	21,527	21,337 1,918 3,738 2,321	20,272 1,781 3,869 1,764	20,431 1,851 3,830 1,627	20,397 1,927 3,845	19,780 1,757 3,672 1,718	21,730 2,049 3,878 2,074	21,999 2,019 3,845 2,271	22,875 2,189 3,780 2,556	22,546 2,031 3,839 2,303	21,011 1,959 3,796 2,134	21,024 1,869 3,830 2,141	21,096 1,896 3,745 2,100	20,797 1,805 3,762 1,820
203-6,9 21		3,632	11,601	11,770	11,690	11,706	11,152	11,333	10,999	3,762	11,940	12,147	12,617	12,637	3,771	3,727	11,708	3,696
26	Paper and allied products	7,772	7,478	7,473	7,443	7,475	7,598	7,296	5,844	5,695	6,267	6,028	5,848	5,740	5,936	5,694	5,611	5,540
265	Pubp, paper, etc	2,796	2,656	1,879	2,751	2,755	2,656	2,435	2,319	2,143	1,987	2,650	2,687	2,724	2,352	2,313	2,236	2,178
264 28 28 6	Chemicals and allied products	2,965	2,897	2,887	2,830	2,817	2,912	2,881	2,568	2,445	2,974	2,872	2,853	2,775	2,608	2,546	2,500	2,483
283,4	pigments	5,805	5,900	5,994	5,785	5,887 5,664 8.894	6,453	6,055 5,531 8.062	5,246 5,333	4,975 5,210 5,343	6,173 5,758 8.808	5,653	6,042 5,764 8,552	5,791	5,780	5,398	5,100	5,023
30	Rubber and plastics products,	+,594	4,474	4,393	4,488	4,470	4,817	4,954	4,777	4,940	4,676	4,505	4,276	4,360	4,970	4,804	864.7	4,703
23 27 31	411 other nondurable goods industries.	12,971	12,649	12,709	12,730	12,661	12,832	12,373	11,690	11,859	12,620	12,185	12,077		11,620	11,270	11,146	11,450
Ppre	Preliminary. Revised.																	

The productive - Comparable to the previous preduces" expiral goods and the defense products folds - instructive leveluding abundances, radio and TV, and electronic components), wondefense portions of supported rand replacing and replacing entropies of supported and replacing entropies of supported and replacing entropies of supported and replacing and replacing entropies constructors in the following industries. Ordinaries continues, consumments and entropies on defense work filed by target defense contractors in the following industries. Ordinaries consumments are reports on detense vote filed by target defense contractors in the following industries. Ordinaries communication entropies on the parties industries. EMprofers and sources are the totals for the period and are adjusted for trading-day and valendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day and valendar-month variations.
The supplementary errors are regressially the separate industry categories as follows:
Howsehold durable goods industries-Household furniture, kitchen articles and portery, cuttery, handfacts, household appliances rudto and IV, ophthalmic goods, warries, and clocks, and makes and portery and secondary GROUP		Not seasonally adjusted
Table 5. VALUE OF MANY FACTURERS' INVENTORIES, BY STACE OF FABRICATION, BY INDUSTRY	(Millions of dollars)	Scasonally adjusted

OF MANY FACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP	(Williams of dollars)
Table 5. VALUE	

10

3 K

months

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N. V. 1

Jan. 1981P

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980

Jan. 981P

122.39h 146.572 5.110 119.00h 118.524 119.610 7.5.647 11.660 11.660 4.703 4.703 4.703 4.704

134 857 354 354 354 354 354 377 715 715 715 698

2 8 4 1 8 8 5 6 6 7 1 5 6 6 4 8

233.547 154.097 5.723 20.390 19.271 37.428 20.726 30.726 30.218 8.021 12.150 18.227 79.450 18.227 79.450

622 725 967 967 967 967 961 961 125 165 8337 350

60,308 5,955 5,955 18,935 18,635 11,991 11,991 11,991 11,965 11,366

64, 984 6, 197 21, 154 18, 660 18, 585 8, 585 12, 566 85, 518 86, 518

2 4 23 22 2 2 2 2 2 4 4 4

8 3 2 2 2 2 5 2 1 2 8 2 4 1 3 238.5%. 15.11%. 10.11%. 11.6%. 10.6%.

244,090 994 20,148 18,147 38,691 34,641 34,641 34,141 11,141 18,119 18,1

61,907 6,067 70,785 119,235 18,438 72,135 72,135 72,135 8,438 112,166 4,438 118,516 4,438 118,516 118,516 4,438 118,516 118,51

64,983 6,137 70,851 19,478 18,548 36,678 84,038 112,34 84,038 119,210 84,038 119,210 84,038

Durable goods Industries.

Stone Cally and glass products.

Printing of the Cally and glass products.

Publicated of edals.

Noneterited machinery.

Instrusoristion and thory.

Instrusoristion and thory.

Noneterited goods functives.

Other durable goods thouseries.

Conclude and allied products.

Petroleus and cold products.

Petroleus and cold products.

Rether and plastics products.

Ruber and plastics products.

MATERIALS

217 683 1115 254 573 185 690 542 333 991 857 713 013

7463 7463 7762 7768 9900 1144 349 029 079 129

023 712 266 909 909 790 132 132 658 509 209 209 209 311 311 375 383

055 047 281 1161 1161 1156 074 016 412 024 024 026 200 665 401

49, 501 49, 600 2,468 8,398 6,330 10,877 10,877 11,722 4,913 32,791 7,098 11,775 11,960

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54, 754 8, 510 6, 573 10, 827 10, 827 10, 827 8, 546 8, 547 8, 547 1, 784 1, 784 1, 784

Durable goods industries.

Stone Clay and glass products.

Fibilities of medials.

Fibilities of medials.

Nonelectrical meditury.

Transportation meditury.

Transportation couplement.

Nondurable goods industries.

Nondurable goods industries.

Obeston and medial products.

Perroleum and comit products.

Rubber and plastics products.

All other nondurable goods industries.

Nong I plastics products.

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76,469 64,429 773 7,674 16,779 9,602 17,107 12,040 12,040 12,040 12,040 2,013 2,013 2,013 2,014 6,543

65,591 784 6,788 6,788 11,740 11,740 11,929 2,596 11,929 2,596 11,929 2,596 6,420

7,669 7,71 7,012 7,012 10,789 10,789 17,693 17,

67.808 67.808 801 6.897 7.939 17.939 18.524 3.533 2.611 12.035 2.646 2.090 891 6.408

298 800 800 707 707 707 174 378 861 698 698 698 698 769 769

885,736 73,124 794,886 77,688 77,688 111,196 22,495 3,850 22,495 3,850 22,730 2

75, 485 876 876 876 877 878 117, 902 117, 902 117, 902 117, 902 113, 794 12, 873 13, 873 13, 8

810 827 904 717 4407 4407 4407 8647 888 872 872 8872 8872

837 837 837 835 945 610 774 644 610 774 646 610

887,272 69,585 860 8,211 17,451 110,518 110,518 11,155 13,678 12,707 12,687 12,707 13,687 14,444 6,744

71,891 8,934 8,034 17,716 10,729 20,469 3,851 12,611 12,611 12,611 6,709 6,709

934 875 914 915 706 090 090 743 743 743 743 743 743 743 743 743 833 833 863 863 864

5,588 1,017 1,208

86,293 73,733 861 6,984 17,867 17,867 111,248 22,663 3,896 2,732 2,732 12,560 2,527 2,527 6,738 6,718 6,718

74,066 873 8,052 117,409 117,409 117,409 112,973 2,787 112,973 2,787 2,787 6,860

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All other durable goods industries.

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Rubber and plastics products.

Rubber and plastics products.

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75,269 36,921 2,644 4,472 4,660 3,960 3,960 2,001 4,219 38,348 8,874 4,219 4,219 1904 1,013 1,013 2,574

76,051 2,668 5,172 4,644 3,977 4,646 4,646 3,986 2,030 4,255 9,192 4,255 9,192 1,895 23,568

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18,136 2,777 2,777 2,777 4,875 9,942 4,685 4,113 4,1450 88,642 2,450 2,027 2,937

55,821 2,575 2,575 5,141 4,424 4,393 3,947 1,276 2,382 21,023

70,532 35,994 2,580 5,379 4,510 4,510 4,594 4,594 4,594 4,337 4,338 4,338 8,469 2,212 21,033

73,936 2,850 2,850 5,532 4,603 4,880 3,791 11,948 4,396 4,396 4,396 2,238 2,238 2,238 2,238

76.613 8.356 2.930 5.292 4.797 10,110 4.961 2.041 4.307 38,277 4.305 4.305 2.217 21,879

76,756 2,774 2,774 2,774 10,403 10,603 4,686 4,031 2,023 4,486 9,154 4,122 2,107 22,898

38.378 2,809 5,241 4,626 10,232 4,730 4,525 38,049 9,103 9,103 2,032 23,145

76,814 38,403 7,811 7,811 6,718 4,718 4,787 3,949 4,511 4,511 1,999 23,344 23,344

38,340 2,738 5,290 5,290 10,097 4,066 4,066 4,509 77,244 4,509 77,244 1,509 3,691 1,940 1,940 1,940 1,940

Darable goods industries.

Primary metals.
Primary metals.
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Primary metals mentionery.
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Primary metals and metal media products.
All other durable goods industries.
Petrolew and only products.
Rubber and plistics products, n.e.c.
All other nondurable goods industries.

Table 6. PERCENT CHANGES AND REVISION RATES OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

			Pe	rcent change	es			Re	vision rate	e 2
**	М	onth-to-mont	th	Avera	ge monthly	rates of ch	ange ¹	Year ago	Average	monthly
Item and industry group	Dec. 1980- Jan. 1981	Nov Dec. 1980	Oct Nov. 1980	Fourth quarter 1980	Third quarter 1980	Second quarter 1980	Jan. 1980- Jan. 1981	Jan. 1980	Jan Dec. 1980	Jan. 1976-1980
Shipments:										
All manufacturing industries	+1.1	+1.0	+0.7	+1.4	+2.6	-1.9	+0.5	+0.4	0.3	0.3
Durable goods industries	+0.4	+0.4	+0.3	+1.5	+3.5	-3.1	+0.3	+0.3	0.3	0.6
Nondurable goods industries	+1.8	+1.7	+1.0	+1.3	+1.7	-0.7	+0.7	+0.4	0.5	0.5
Inventories:										
All manufacturing industries	+1.9	+0.2	+0.5	+0.1	-0.0	+0.7	+0.6	0.0	0.1	0.2
New orders:							1			
All manufacturing industries	-0.3	+2.1	+0.5	+1.5	+3.9	-3.0	+0.3	+0.7	0.3	0.6
Durable goods industries	-1.9	+2.0	+0.4	+1.5	+5.9	-5.0	-0.0	+0.7	0.5	0.9
Nondurable goods industries	+1.3	+2.3	+0.5	+1.4	+1.9	-1.1	+0.7	+0.6	0.5	0.6
Unfilled orders:										
Durable goods industries	+0.3	+0.9	+0.5	+0.6	+0.5	-0.5	+0.3	+0.1	0.1	0.2

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.
²Represents the revision in the percentage change between the preliminary and final estimates. The revision rates between the advance and final estimates for durable goods industries are shown in the advance report for the month,

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entoriess	hipments ra	tio	Unfil:		-shipments backlog)	ratio ¹
	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980	Јап. 1981	Dec. 1980	Nov. 1980	Oct. 1980
All manufacturing industries	1.55	1.53	1.55	1.55	3.52	3.52	3.51	3.51
Durable goods industries. Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical Electrical machinery. Transportation equipment. Instruments and related products.	2.05 1.34 1.66 1.96 2.50 2.13 2.37 2.30	2.02 1.33 1.61 1.88 2.60 2.13 2.22 2.26	2.02 1.37 1.64 1.90 2.64 2.04 2.14 2.33	2.01 1.40 1.70 1.88 2.62 2.06 2.09 2.31	4.18 0.60 2.34 3.04 4.08 3.81 13.34 1.72	4.18 0.62 2.44 2.96 4.20 3.82 12.83 1.70	4.17 0.66 2.48 2.99 4.21 3.66 12.61	4.18 0.68 2.52 3.02 4.17 3.62 12.48
Nondurable goods industries. Food and kindred products. Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.c.	1.04 0.93 3.06 1.50 1.25 1.28 0.50	1.04 0.95 2.79 1.55 1.21 1.19 0.55 1.25	1.07 0.98 3.22 1.49 1.24 1.32 0.53	1.07 0.99 3.02 1.48 1.23 1.30 0.57	0.68 (X) (X) (NA) (NA) (NA) (X) (X) (X)	0.70 (X) (X) (NA) (NA) (XA) (X) (X)	0.69 (X) (X) (NA) (NA) (X) (X) (X)	0.71 (X) (X) (NA) (NA) (X) (X)

⁽NA) Not availabl

Preliminary.

rRevised.

⁽X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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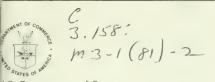
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Manufacturers' Shipments, Inventories, and Orders

FEBRUARY 1981

For Wire Transmission 2:30 P.M. E.S.T. Tuesday, March 31, 1981

J.S. Department of Commerce UREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in February were valued at \$161.3 billion, down \$0.8 billion or 0.5 percent from January. New orders for durable goods for February totaled 681.5 billion, virtually unchanged from January. New orders for nondurable goods, where approximately 80 percent of new orders directly reflect shipments for the month, were down \$0.9 pillion or 1.1 percent to \$79.9 billion.

For the durable goods industries, increases in new orders for primary and fabricated metal products were offset by declines n the nonelectrical machinery and transportation equipment ndustries. Within the primary metals category, steel orders were up \$0.9 billion or 17.5 percent to \$6.1 billion. Despite this large increase, the volume of steel orders was below the high for 1980 of \$7.2 billion reported last October. Nonferrous primary metals were up \$0.5 billion or 10 percent to \$5.1 pillion. The decline in nonelectrical machinery orders of \$1.2 pillion or 7.1 percent to \$15.4 billion was widespread throughout the industry. The decline in the transportation equipment industry of \$0.8 billion or 5.2 percent to \$15.3 billion was caused by the aircraft industry where a decrease of \$1.5 billion or 27 percent more than offset increases in all of the other transportation industries.

New orders for the nondefense capital goods industries as a group fell \$4.0 billion or 16.2 percent to \$20.5 billion in February. This is the largest one month decline in that category since an 18.3 percent decline in July of 1971. New orders for defense capital goods, although volatile on a month-to-month basis, continued to increase in volume. February defense orders were valued at \$5.5 billion, up \$1.3 billion or 32 percent. This large increase followed a January decline of 28 percent and a December increase of 31 percent.

Shipments of manufactured goods in February declined \$0.4 billion or 0.2 percent to \$160.8 billion as decreases in the nondurable goods industries more than offset the increases in durable goods industries. Shipments by chemical, food, petroleum, and rubber and plastics products manufacturers all showed declines.

The increases in shipments of durable goods manufacturers were scattered and relatively small. Within the transportation equipment category, the motor vehicle and parts industry reported its first increase since October, going up \$0.3 billion or 3.0 percent to \$9.3 billion.

Manufacturers' backlog of orders showed a small increase in February of \$0.5 billion or 0.2 percent to \$292.2 billion. The increase in the backlog of orders of electrical machinery manufacturers of \$0.7 billion or 1.7 percent to \$41.2 billion was partially offset by declines in the primary metals and transportation equipment categories.

The book value of manufacturers' inventories in February increased \$2.8 billion or 1.1 percent to \$251.2 billion, following a January increase of 1.6 percent. Unlike January, nondurable goods manufacturers showed a larger increase than durable goods producers. More than half of the \$1.6 billion or 1.9 percent increase in nondurable goods inventories in February was accounted for the by the chemicals and petroleum industries. The only significant inventory increase in a durable goods category occurred in the steel industry where the book value increased 2.4 percent. The inventory to shipments ratio in February stood at 1.56, as compared to 1.54 in January and 1.53 in December.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for March is scheduled for release on April 21, 1981, and the full report is scheduled for release on April 30, 1981.

Poston Paulis Inline.

APR 28 1981

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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							(Willions	of dollars)	_								
				Season	Seasonally adjusted	ed						No	Not seasonally adjusted	y adjusted	1,1		
			Wont	Monthly			Quarterly					Wonthly	1 y				Ą
SIC	Industry	40	4	2			-	-		Last 4 m	months		Last 4	months	a year ago		
		1981P	1981r	1980	1980	086.	0861	1980	Feb. 1981P	Jan. 1981	fec. 1980	Nov. 1980	Feb. 1980	Jan. 1980	Dec. 1979	Nov. 1979	1980
	TOTALS																
	All manufacturing industries	160,782	161,148	159,323	157, 722	473,742	445,085	426,584	151,549	148.10.	152.450	156,659	153, 732	139, 529	139,658	143,286	4, 798, 5
	excluding transportation	145,230	145,806	143,486	141,665	425,355	400,515	386, 151	145,697	134,260	137, 444	140,121	137,458	125,776	125,698	127,976	1,619,3
	unfilled orders	83,818	83,065	82,642	82,133	246,411	231, >34	224, 205	83,487	75,498	79,659	81.486	80,987	73,071	73,390	74,937.	941,4
	Durable goods industries	80,819	80,259	80,027	74,741	239,265	221,172	210,716	2692 8	72,215	76,053	78,679	79,116	70, 187	70,347	72,706	902, 7,
	orders	67,703	67, 169	56,896	117.99	149,247	185,402	179,14	17,683	60, 725	64,525	65.584	n85,590	58,514	59.377	990,099	757,0
	Nondurable goods industries	79,963	80,889	79,296	17,981	234,477	223,913	215,978	756'08	75,946	76,402	23,480	74,616	69,442	69,311	70,580	895,8
	orders	16,115	15,896	15,746	15,722	47,114	46, 132	+0,111	16,304	14,773	15,134	15,402	.5,397	14,557	14,013	14.871	184.3
	MARKET CATEGORIES																
	Home goods and apparel	12,023	11,682	11, 251 . 29, 038	11,406	34,306	32, 794.	31,961	11,402	26, 700 (9,914	11,984	11,519	9,918	9,766	11,237	133,3
	Equipment and defense products, except automotive	23,157	23,442	22,771	22,894	34,916	31,439	27,309	23,291	20,963	23, 589	22, 196	22, 102	18,938	21,743	19,467	263.8
	Construction materials, supplies, and intermediate products	13,057	13, 703	13,613	13,370	40.249	35,992	33,546	12,539	11, 299	12,356	13,062	12, 162	11,092	11,423	12,543	147,6
	Other materials, supplies, and intermediate products	72,600	72,805	71,172	70,542	210, 430	194,460	191,641	74,125	69, 423	67.978	69, 140	69,857	65,019	61,118	62,216	801.5
	SUPPLEMENTARY SERIES?												-				
	Household durable goods indus- tries. (apital goods industries. Nondefense.	5,329 25,890 21,987 3,903	5,149 26,129 22,443 3,686	5,009 25,498 21,772 3,726	4, 998 25, 716 21, 858 3, 858	15,219 76,832 65,472 11,360	14, 501 73, 869 63, 294 10, 575	13,928 72,176 62,315 10,161	5,239 26,290 22,577 3,913	4, 389 23, 496 20, 134 3, 362	4,640 26,432 22,456 3,976	5, 202 25, 284 21, 497 3, 787	5,079 25,102 21,853 3,249	4,393 21,645 18,836 2,809	24, 205 20, 804 3, 401	22,434 19,344 3,090	58.8 296.2 254,33
	INDUSTRY GROUPS AND INDUSTRIES																
32	Durable goods industries: Stone, clay, and glass	•															
322	Glass containers.	4,621	4,536	4,567	4,383	13, 235	12,281	11,550	4,232	3,759	3,968	381	3,858	3,756	3,576	4,132 354 11,203	4,6
333-9	Blast furnaces, steel mills	6,205	6,205	6,635	6,280	18,697	14,221	14,353	6,267	5,926	5,819	5, 733	5,922	5,605	4,927	5,321	4,40
34	Fabricated metal products	5,128 10,022	5,175	4,863	4,905	14,712	15, 135	14, 074 25, 981	5,153	4,694	4,518	4,709	5,849	5,495	4,750	4,809	60,9
35 351 352	Machinery, except electrical Engines and turbines	870 15,285 1,231 1,120	15,562 1,356 1,196	895 14,729 1,135 1,145	797 14,650 1,184 1,169	2,505 44,128 3,522 3,479	2,360 42,099 3,297 3,281	2,387 40,734 3,266 3,076	823 15,590 1,310 1,194	14, 153 1, 237 1, 131	708 14, 922 1, 138	13,997 1,108	783 14,659 1,171 1,194	718 12, 736 1, 122 1, 039	13, 742 969 984	714 12,527 1,006 828	9.8 169,3 13,3 12,9
354 356	Construction, mining, and material-handling equipment. Metalworking mechinery General industrial machinery.	2,753	2,764 931	2,676	2.448	7,697 2,903 3,722	7,658	7,676 2,624 3,529	2,822 1,018 1,226	2,607	2,478	2,318	2,948 927	2,617	2,502 846	2,279 841	31,5
See	footnotes at end of table.																

See footnotes at end of table.

				Seasonally	nally adjusted	peq						Not	seasonally	y adjusted				
			Monthl	thly			Quarterly					Monthl	٨				Annual	
SIC	Industry							:		Last 4 mc	months		Last	4 months	year ago			
		Feb. 1981 ^p	Jan. 1981	Dec.	1980	1980	1980	1980	Feb. 1981P	Jan. 1981	Dec. 1980	Nov. 1980	Feb. 1980	Jan. 1980	Dec. 1979	Nov. 1979	1980	1979
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
36	Electrical machinery	10,943	10, 681	10,384	10,813	31,944	30, 742	29,819	11,085	9,784	10,375	10,952	10,617	9,204	9,720	9,614	123,390	110, 713
363	. : :	1,717	1,650	1,845	1,829	3,648	5,142	3,028	1,835	1,572	1,745	1,803	1,883	1,609	1,534	1,696	20,984 13,544 8 498	19,915
366	Communication equipment	3,271	3,171	3,020	3,185	9,435	9,418	9,256	3,266	2,926	3,141	3, 151	3,145	2,598	3,183	2,797	36,995	32,143
371	Transportation equipment	15,552	15,342	15,837	16,117	48,387	44,575	40,533	15,952	13,895	115,011	16,538	16,274	13,853	13,960	15,310	179.187	194,461
372,6	Aircraft, missiles, and parts	4,282	4,489	4,508	4,685	13,962	12,942	12,550	4,417	3, 798	4, 791	4, 711	3,999	3,219	4,049	3,684	51,134	43,804
3795	tank vehiclesInstruments and related	879	842	773	748	2,212	2,459	2,459	831	736	873	760	798	769	976	763	9,738	8,693
381-4	Scientific and engineering Photographic goods	3,783	3, 691 2, 139 1, 372	3,735	3,629 2,102 1,356	10,984 6,370 4,077	10,463 5,994 3,946	9,944 5,734 3,693	3,651 2,110 1,348	3,324 2,019 1,145	3,714 2,167 1,377	3,759 2,098 1,483	3,485	3,030 1,832 1,034	3,248	3,304	42,026 24,156 15,750	36,253 21,082 12,757
39	All other durable goods industries	8,178	8, 099	7,956	7,921	23,842	21,936	20, 753	7,839	6, 791	7, 185	7,845	7, 709	6,832	6, 795	7,585	89,843	90,885
201	Nond	21,894	22,278	22,378	22,115	66,318	65,186	13,566	22,152 5,317 2,329	20,963	22,204	22, 427 5, 429 2. 563	20,391	18,903	20,352	20,518 5,163 2,438	252,071 60,124 31,134	234,828 62,002 27,659
207	Fats and oils	1,720	1,862	1,858	1,852	5,433	5,070	4,377	1,822	1,835	1,815	1,896	1,745	1,599	1,558	1,666		19,322
21 22 22	To	1,229	1,196	1,264	1,171	3,666	3,542	3,344	1,140	1,146	1,281	1,206	1,061	1,002	1,052	1,078		12,173
26 261-3	Paper and allied products	6,257	6, 191	6,201	6,005	18,261	17, 791	17,239	6,376	5,824	5,720	5,926	2,813	2,583	2,488	2,587		30,165
265 264 28	5	1,474	1,406 1,893 15,286	1,395	1,335	4,086 5,543 43,871	3,867 5,566 39,699	3,867 5,155 38,234	1,481	1,323	1,264	1,319 1,788 13,359	1,381	1,302	1,110	1,724		21,311
281,6 283,4 29		5,343	5,227 4,038 16,964	5,256 4,286 15,361	4,803 3,678 15,590	15,050 11,838 45,989	13, 200 11, 802 42, 639	13, 154 10, 968 43, 724	5,572 3,799 16,980	4,956 3,815 16,844	4,951 4,020 15,748	4,554 3,604 15,565	5,010 3,608 14,568	4,658 3,322 13,827	4,331 3,502 13,489	4,425 3,406 12,779	56,003 45,303 175,533	51,793 40,147 134,041
30	Rubber and plastics products,	3,436	3,664	3,574	3,810	11, 180	11,088	10, 236	3,485	3,330	3,239	3,694	3,930	3,677	3,279	3,532	43,995	44,742
27	All other nondurable goods industries	11,184	11,037	10,934	11, 109	33,110	32,044	31,268	11,270	9,807	10,085	11,665	10,602	9,596	9,664	10,559	128,272	116,234

rRevised. Preliminary.

trading-day or calendar-month variations.
The supplementary series are regroundings of the separate industry categories as follows
The supplementary series are regroundings of the separate industry categories and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaThe supplementary series are regrounding of the statement of the separate industry categories and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscella-"Supposets and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for

Giptial good industries—Comparable to the prestour produces' capital goods and the defense products (old series) citegories,
the character shorknery; escop electrical (excluding farm methrers and equipment and machine ahops), electrical machinery (excluding plants are produced farmers) and the mondedest produces of dispositiated and relative despinent, communication equipment, aircraft and aircraft and aircraft and orders. Orders of dispositiated and electrical machinery of pressure reports on orders or extract parts, and shipbuilding.
The data are recomparable to those published annually in the MA-175, Shippens to person or pressure reports on the pressure of pressure or pressure in the specified (orders) Shippens to the pressure or pressure annually in the MA-175. Shippens to person and orders work to pressure the pressure or pressu neous personal goods.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, WARKET CATERORIES, AND SUPPLEMENTARY SERIES.

4

(Millions of dollars)

				Seasonally	nally adjusted	pa						Not	seasonall	seasonally adjusted?	64			
1			Monthly	thly			Quarterly					Wonthly	41				Annual	-
SIC	Industry	100	-		;					E 4	months.		lusst	4 OB*2.	a year ago			
		1981P	1981r	1980	1980	1980	1980	1980	F. b.	Jan 1981	Dec.	Nov.	Fest.	Jan.	20c.	Nove.	1 28.7	F. F.
	TOTALS																	
	All manufacturing industries	161,316	162,090	162,157	158,775	478,48h	dwg jup	420,815	155,436	100,100	I see . AP	* * * * * * * * * * * * * * * * * * * *	1 10, 44, 7	1	14. , 186.	144,24	ž .	3,015
	excluding transportation	145,989	145,926	144,988	142,818	+30,853	401,522	175,515	148,14	13r , cHs. 1	14-,64,	14.1.1	lar, sho	1		11, 4 1, 11	125.4 , 15.4	1, 1, 1, 4
	unfilled orders	84,352	84,007	85,476	83,186	251,655	251,445	21K, 15h	X . Y	2 2	7	AK 2, 7M	Ац. 13.	· · · · · · · · · · · · · · · · · · ·	*		41,2,00	+35, 3
	Durable goods industries	81,453	81,336	82,654	81,043	244, 194	225,417	200,1 15	32,150	24. 5	,	14.11.4	÷	. 23.	* 7.1	, I.	4]4, '4]	
	orders	68,337	58,245	69,523	07,717	4,777	184,047	174, : 35	n. 4. 3 a. 3	7		,	7	30.1	. 95 2		7	141, 00
	Nondurable goods industries	79,863	80,754	79,503	17,128	234,542	224,129	214,517	81,07y	Ye, 05.4	, 186	1		44,111	100, 100	1,100	(P) [[P]]	
	industries with unitied	16,015	15,761	15,953	15,409	47.234	X 7	¥, . °;	15,431			1, , 1	1 8 2 7 1	- · · · · · · · · · · · · · · · · · · ·	13,002	1 , 541	133,00,	1,1, 2
	orders	63,848	166,993	63,550	657,259	187, 16, 5	1,7,783	150,832	K to	1,133	11,-15	· .		<i>?</i> :	ž.	50%	11,439	n33, 413
	MARKET CATEGORIES																	
	Home goods and apparel	12,347	11,821	11,249	11,559	54, 143 84, 840	32, t "5 815, 8444	12,45	12,374	26,723	28, 43	4 2 3	11. efe	P (1)		10,000	130,740	126,305
	Except automotive	23,745	25,848	25,073	23,121	35,379	52,503	25,600	23,635		4			11.50	2			258,44 144
	Construction materials, supplies, and intermediate products	13,530	13,551	13,556	13,158	40,375	35,450	33,196	12,42%	11,54	7	1., 5 ' 9	11, 17	16 5.	11,	1	14	1.0
	intermediate products	72,215	71,286	71,577	71,480	213,490	197,326	186,251	75,184	59, SHK	68,04]	61.,11	15.7.1	1, 139	* 1, 484	, 412	3U4, n7n	44,55
	SUPPLEMENTARY SERIES ²																	
	Household durable goods indus- tries. tries. Total tal goods industries. Nondefense.	5,646 26,057 20,537 5,520	5,322 28,706 24,513 4,193	5,005 27,498 21,673 5,825	4,873 25,302 21,849 4,453	14, 454 78, 126 54, 140 14, 186	14,34, 17,178 11,834	13,633 75,478 61,7-5 13,7-3	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		2 2 2 0 2 0 2 X		1571				2 1 2 1 1 2 2 2	15, 41, 55, 15, 15, 15, 15, 15, 15, 15, 15, 1
	INDUSTRY GROUPS AND INDUSTRIES																-	
32 33 331 333-5, 9	ā	4,637 12,317 6,120	4,471	4,496 12,899 6,784	4,379 13,029 7,071	13,261 39,673 21,038	12,131 34,777 15,620	11,184 27,000 11,361	4,256 13,418 7,048	5, 800 11, 24	12,125	\$ - \frac{1}{2} \f	3,304	7 2 2	3, 28.2 In , 46.3 4, 10.4	101	4 2 E E E E E E E E E E E E E E E E E E	48.14
35	M E	5,142 10,004 15,374 1,241	4,674 9,705 16,545 1,710	5,008 10,514 15,100 956	4,872 9,884 14,822 1,323	15,358 36,519 44,728 3,589	15,436 26,046 41,925 3,298	13,267 25,271 37,437 2,911	5,322 7,773 16,026 1,301	4,551 8,929 15,245 1,444	,015, 15,021 1,157	13,485	1, 2, 2, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	7,227 3,337 14,153 1,163	13,862	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	71, L44 110, 202 115, 208	29,44.2 1111,622 163,334 15,174
354	Construction, mining, and material-handling equipment. Metalworking machinery	3,107	3,171 1,000 1,381	3,016 953 1,173	2,505	8,420 2,568 3,633	2,745 2,254 3,237	6,766 2,411 2,857	3,194 804 1,185	3,056 851	2,916	1, 18, 1	3,108	2,977	2,734	1,096	31,887 1.,5n2 13,453	32,531 11,485 13,491
See	See footnotes at end of table.																	

							-	100										
				Seaso	Seasonally adjusted	ted						No	t seasonal	Not seasonally adjusted ¹	d1			
			Monthly	hly			Quarterly					Monthly	ıly				Annual	1
SIC	Industry						:	-		Last . n	months.		Last	Last 4 months a year ago	a year ago			
		reb. 1981P	Jan. 1981r	1980	1980	1980	1980	1980	Feb. 1981	Jan. 1981	Dec. 1980	Nov. 1980	Feb. 1980	Jan. 1980	Dec. 1979	Nov. 1979	1983	1979
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery	11,643	11,420	10,565	11,459	33,122	30,444	30,700	11,855	10,831	10,344	11,094	11,686	10,052	9,837	9,387	127,508	115,785
5		1,821	1,850	1,905	1,750	5,500	4,969	5,369	1,970	1,882	1,744	1,665	2,048	1,547	1,519	1,544	21,330	20,653
365	Radio and TV	1,009	1,277 Bn3	785	672	2,189	2,234	1,907	1,022	688	815	765	845	2005	1,001	272	8,44,8	7,445
366	Communication equipment		3,766	3,348	3,900	10,780	9,712	10,029	3,535	3,597	3,432	3,623	2,194	5,115	3,282	2,593	40,922	20,410
37	Transportation equipment		16,164	17,169	15,957	48,133	48,024	44,502	15,289	15,713	16,153	15,603	16,132	15, 251	16,030	10,341	189,192	Jr, 25
372,6	Aircraft, missiles, and parts.	4,008	5,407	766 9	4,624	12,907	14,748	19,574	3,669	5,327	5,336	3,847	4,130	5,547	o, 28h	5,158	52,837	45,795
3795	tank vehicles	1,059	959	1,689	930	3,041	4,457	2,427	1,058	666	1,513	034	732	7+4	484	706	12,415	7 7.
r n	products	3,819	3,763	3,909	3,600	11,090	10,401	6,779	3,683	3,343	3,944	3,641	3,630	3,253	958,5	3,244	42,380	17,149
39 22	All other durable Koods industries	8,332	8,291	8,002	7,917	23.868	21,609	20,325	8,057	978	7,110	7,755	7,760	268,4	6,649	7,370	89,437	91,176

Ppreliminary. 'Revised.

reding-day or calendar-worth variations.
The supplementary series are regressing and particles and pattery, cutlery, handrools, and hardware; household appliances, radio and TV; ophalizing goods, watches, and "Proceeding the separate industry categories and pattery, cutlery, handrools, and hardware; household durable goods are regressing the supplementary. Dispense and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are adjusted for trading-day

Captial goods and words—Comparable to the previous producers' captual goods and the defense products (old series) categories.

Nondefense products—Comparable to the previous producers' captual goods and the defense products described by the comparable of the comparable comparable of shiphulidate and repairing and real conditions and the nondefense portions of shiphulidate and represent and saltered parts, and ordanice.

The forest products—capture reports on address over filed by Integer defense constructors in the following infusitive, ordanication equipment, arrest and attract fants, and ordanics.

The data are comparable to those poult sheet and analytic tree with 3° Shippens or sections to the following of the first of the constructors in the following infusitive, ordanication equipment, arrest and arrest fants, supported to those poults and arrest for the comparable to those poults and analytic to the well's Shippens or sections or the first ordanical states of the first ordanical states and the section of the section of the first ordanical states are comparable to those poults are an arrest ordanical states.

Table 3, VALUE OF MANTIACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, WARKET CATEGORIES, AND SURMERFRARM SPRIES

6

							CWillions	Millions of Jollars		ı								
					Season	Seasonally affusted	pa						Not		seasonally adjusted.	d1		
			Mon	Montals				Quarterly						Monthly	v4v			
STC	Industry	4.50	4.0			1414	:	,				last +	+ months		1.8	last 4 months a	a vear ago	
		1981P	1981	1980	1 180	1,98	1980	- x	7.61	7	Feb.	Jan. 1,481	Dec. 1980	Nov. 1386	Feb. 1980	Jan.	Dec. 1979	Nov. 1979
	TOTALS																	
	All manufacturing industries	292,209	291,677	290,735	7116, 785,	285,43	281, " ***	285, 3017	2,4,710	223,035	244, 145	. +2, 323	288, 572	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	286,621	283,465	1,13	274, 21
	excluding transportation	178,809	178,050	177,930	175,434	172,419	171,411	181,265	17. 18.4	174,143	12,44	177,946	174,423	173,720	181,201	177,912	173,713	175,547
	Durable goods industries	281,456	280,825	279,746	, 277,124	274,022	270,383	274,884	F. K. G.	201, 4	281,254	281,000	277,772	275,393	274,931	271,821		265,016
	Nondurable goods industries	10,753	10,852	10,389	10,785	10,87,	12,61	12,028	11,831	11,241	1 , 7 34	10,713	10,410	10,634	11,74	11,544	11, 524	11,
	MARKEI CATEGORIES								-	-								
	Home goods, apparel and consumer staples.	707*7	4,084	, 48 t	3, 92R	.,12.	2,242,4	7	, s	. Pbs	, , , , , , , , , , , , , , , , , , ,	1 10 10	5,44	3,761	963,1	4,2,15	7	18,4
	except automotive.	167,595	166,872	164,410	162,045	101,600	1,1,41.	154,03	154,944	150,412	108,502	168,15	154,814	162,481	158,597	158,416	11	1.3,12
	and intermediate products	19,731	19,859	20,009	14,957	19,885	20,423	1,,,,,	21, 910	21,130	19,703	14,863	14,765	19,738	30,503	20,391	20,648	20,411
	intermediate products	100,479	100,862	102,382	101,974	14,824	110, 41.	102,34h	+4,171	46,026	101,506	100,640	100,151	100,047	103,012	100,363	97,041	44,17.
	SUPPLEMENTARY SERIES?																	
	Household durable goods indus- tries. Capital goods industries. Nondefense. Defense.	3,462 196,359 133,636 62,723	3,144 196,194 135,087 51,107	2,971 193,615 133,017 60,599	2,725 191,621 133,120 58,501	1,233 192,126 134,355 57,771	5,387 188,621 135,810 53,011	3,680 185,219 136,118	1,475	172,754 126,755 46,000	3,293 197,571 134,294 63,277	2,891 197,462 135,385 62,077	2,748	2,830 192,328 133,245 59,083	3,431 184,18 135,561	3,240 183,532 135,004	3,199	3,385 177,142 129,800
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33 331 333-6,9	Durable goods industries Stone, clay, and glass Primary metals Blast furnaces, steel ailis. Nonferrous and other primary	2,529 29,067 18,014	24,185 18,100	2,578 30,738 19,097	2,549 30,425 18,948	2,553	2,702	29,528	29,952	1,080 30,276 18,877	2,524 29,407 18,609	29,499 29,020 17,828	2,453 29,435 18,085	28,557	2,981	2,935 30,199 17,645	2,778 28,737 17,071	28,534
351		9,053 27,48h 58,187 16,844	9,038 27,505 58,097 16,833	9,539 27,517 57,116 16,479	4, 394 27, 338 56, 747 16, 659	8,892 27,178 56,519 16,413	8,591 28,027 56,595 16,412	4,397 28,737 59,994 10,767	4, 134 28, 382 58, 779 16, 530	5,851 27,976 57,585 16,785	9,288 27,459 58,198 16,872	9,120 27,503 57,764 16,882	9,2n3 27,423 5n,n3 10,674	8,764 27,241 59,570 15,655	10,100 28,370 50,345 16,735	9,795 27,954 59,759 16,875	9,053 28,193 58,343 16,828	8,008 27,835 58,279 15,714
354	material-handling equipment. Metalworking machinery General industrial machinery.	9,540 6,760 6,204	9,186 6,990 5,322	8,780 6,922 5,083	8,440 5,917	8,057 7,257 6,172	7,968	8,877	8,423 7,143 7,098	8,041 6,757 7,239	9,530	9,159	8,710 0,887 5,016	6,129 6,129	8,875 7,528 7,075	8,716	8,356	8,125 7,093 7,193

See footnotes at end of table,

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millione of dollare)

							THE PERSON	Wittings of doings)	10									
					Seasons	Seasonally adjusted	Pe						Not s	Not seasonally adjusted	adjusted			
			Monthly	hly				Quarterly						Monthly	ly			
SIC	Industry group	Feh	ua.	Dec.	N N	111	-	-	7.1	111		Last 4 months	nths		Las	Last 4 months a year	a year ago	
		1981P	1981r	1980	1980	1980	1980	1980	1979	1979	Feb. 1981P	Jan. 1981 ^r	Dec. 1980	Nov. 1980	Feb. 1980	Jan. 1980	Dec. 1979	Nov. 1979
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries														_		P	
361.2	Electrical machinery	41,151	40,452	39,710	39,531	38,534	38,830	37,944	35,631	34,858	41,189	40,423	39,374	39,406	37,179	30,119	35,255	35,148
34.3	industrial apparatus	8,197	9,094		7,823					7,418	8,214	8,080	7,770	7,771	7,525	7,402	1,423	7,438
365		1777	349		261							317	358	250	255	22.5	210	3157
366		20,937	20,600		19,677							20,803	20,131		17,102	15,7211	In. 209	15.111
367	Flectronic components	10,115	10,034	10,174	10,380	10,225	10,792	11,014	10,308	9,644	10,034	9,874	9,910		10,727	10,359	14,040	9,944
372,6	Alreatt, missiles, and	005.674	120 1011									117,257	655,611	117,307	105,410	105,255	103,440	101,374
27.23	parts	90,282	90,556	89,578	680'68	90,632	88,827	81,804	77,929	73,098	91,358	92,104	94,575	90,031	81,271	81,141	78,810	76,575
3795	tank vehicles	14,226	14,046	14,032	13,116	13,203	11,205	11,237	11,297	11,146	14,231	14,005	13,742	13,102	10,975	11,040	11,0.4	11, 23
38	Instruments and related products.	6,448	6,412	6,341	6,165	6,232	6,295	6,459	5,985	5,830	6,375	ь, 343	6,323	0,092	6,333	6,188	5,917	1,855
36	industries	3,188	3,033	2,841	2,796	2,817	3,084	3,514	3,317	3,297	2,999	2,781	2,644	2,721	3,164	3,114	3,054	5,197

By special and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are of the end of the period and are not adjusted for trading-

or salpatements writtens.
The salpatements series are regroupings of the separate industry enterporter as follows:
The salpatements series are regroupings of the separate industries, and chiers, only industries. Household furniture, kitchen articles and pottery, cuttery, handtools, household durable goods industries.—Household furniture, kitchen articles and pottery, cuttery, handtools, household durable goods industries.—Household furniture, kitchen articles and pottery, cuttery, handtools, household durable goods industries.

Capital goods industries—Comparable to the previous producers' capital goods and the defense products (old scries) categories.

Another of products—Ambital and regarding farm methory and equipment, and another shops, destroad nethrony (excluding household appliances, radio and TV, and electronic components), the monotedness protocos of shipphilding and regarding and railroad equipment, communication equipment, aircraft parts, and orderes of shipphilding and railroad equipment, communication equipment, aircraft and aircraft parts, and supporting the products—Based on separate reports on defense work filed by large defense contractors in the following industries.

Definite products-dased on separate reports on defense work filled by large defense contractors in the following industries of communication equipment, aircraft and aircraft parts, and suipminish that is a manually in the Will's, special forecasts of forecasts. Ordered communication equipment, or federal forecasts and aircraft sate of preparation in the financial parts are second forecasts. Although the input of forecasts of the school of the school of the contracts and other financial forecasts. Although the input of forecasts of the school of the contract is not constituted and aircraft sate of preparation of the school of the contract is not constituted for the previous eleded reported forecasts parts are second for the previous eleded reported forecasts and the first of

Table 4. VALUE OF MANUFACTORRES INVENTIONERS FOR INSURANCEOUPS, MARKET CATROGERS, WE SUPPLIED MITTERS

							ABCTITUE:	or dollars										
					seasinally	lly adjusted	P						Not	Seas mally advested	adhusted 1			
			Manchis	hly			U.	Juarterly						Wonthly	ly.			
ī.	Industiv	Feb.	Jan.	[w.c.,	1.7	Sant Sant Sant	-		F	1		Last . :0	ouths		Last	- repths	a year day	
		1981p	1981	1980	gkal	1	187	148	1979	1979	Feb.	Jan. 1981	,98°	Vasv.	Feb. 1980	Jan. 1980	Dec. 1979	You.
	TOTALS																	
	All manufacturing industries	251,183	248,408	244,493	244,996	143. hl.	243,530	238,522	23.8, 23.8	I. 3+1.	25.2,807	750 647	243, 73	242, 730	236, 758	233, 547	227, 558	2253+
	Cluding transportation	214,574	2,2,933	209, 264	209, 249	134.963	22. 1942	2 7, 30	,48,34£	192, 7-3	215,424	213,278	209,075	2 18, 166	2.0,848	203, 29	198,1-7	.94, 498
	unfilled orders	174,764	173,256	169, 444	154, 454	168,621	168, 682		158, 373	152,449	175,327	172, 179	168,144	167,349	163.1.2	150,445	156, 529	155,154
	Inrible goods industries	lnh, 143	164,938	161,917	25,1 477	16, 41	100,404	157,127	151,689	146,048	167,295	16833	164,308	154,260	156.4.0	154, 347	150, 321	148,857
	orders	155,524	154,244	151,32.	150, 428	1,0,181	144,71	146, 168	149, 133	,35,537	130,251	154,040	49,895	149,177	145,121	142,947	134, 439	138,341
	Nondurable goods industries	85,040	83,470	87, 180	83, 113	8.,4.24	83,2.4	81,390	70,389	2,243	85,512	84, 721	83, 422	83,470	8. , 288	79,456	77,337	76,277
	orders	19,240	.4, .12	3, 524	. H. 53h	18, 140	.8. 44]	, , , , , , , , , , , , , , , , , , ,	7. 7.	74 77 47	14,.76	18.734	18,249	18, 172	.7,981	17,498	0.60	16, 8,3
	MARKET CATHODORS																	
	Home goods and apparel	18,505	18, 297	18,118	31,773	17,84,	3.785	30, 42 (17, 384	17,409	18,372	17,978	31,738	17, 364	30,270	30,496	16,460	15, 534
	rquipment and detense products. except automotive	71,576	71,105	4,223	+9,813	9,347	27.312	54, 718	11,521	18,296	72,083	70,832	69, 251	69,383	64,240	62,903		50,412
	Construction materials, supplies, and intermediate products		50 108	20,035	14, 704	19, 549	n 6'67		14, 540	18, 443	2(,692	20, 183	19, 725	19.104	20,136	19.581	19,348	18.861
	Other materials, supplies, and intermediate products	46,824	98,131	41,951	4.,847	9h, 49n	97,506	94,857	89, 311	85,970	lou, 130 c	98, 797		95,465	94,076	92,575	89.647	87.761
	SUPPLEMENTARY SERIES																	
	Household durable goods indus- tries copial goods industries Vontefense.	9,240 80,647 88,039 12,608	9,170 80,034 57,585 12,449	9,155 78,209 96,171 12,038	4, 002 78, 117 66, 284 11, 833	4, 058 77, 401 66, 091 11, 310	75,370	4,311 72,177 52,192 10,075	9, 180 98, 54 9, 178 9, 178	8,83.7 54,935 8,533	9,221 80,914 68,351 12,543	9,006 79,554 67,283	8,854 77,292 65,511	8, 710 77, 687 65, 962 11, 725	9,218 71,378 61,793 9,585	9,088	8,880 67,427 58,666 4,251	8,670 67,429 58,231 9,198
	INDUSTRY GROUPS AND INDUSTRIES																	
32 322 33	Durable goods industries Stone, clay, and glass products Glass containers. Preary metals.	548 21,326 11,476	6, 128	5.03	20,148	20, 187	593	20,387	2, 5+3 547 19, 803	5,436	597	6, 190 564 21, 325	5, 955 550 26, 634	5,743	5,938	5, 723	5,541 536 20,153	5,385 541 19,354
333-6, 9 34 343	<u>~</u>	8,463	8,440	8,040	7,967	7,807	7,741	7,848	7,563	.8.715	8,573	8,448	8,000 18,835	7,880	7,757	7,650	7,525	7,243
35 351 352 353	Machinery, except electrical Engines and turbines Farm machinery and equipment.	1,503 39,017 2,519 2,852	1,526 38,637 2,534 2,805	1,468 38,352 2,529 2,822	1,372 38,691 2,553 2,947	1,267 39,107 2,496 3,154	1,439 38,940 2,558 3,195	1,502 37,609 2,703 3,114	1,554 36,524 2,701 3,108	1,397 35,527 2,630 2,913	1,520 39,439 2,531 3,029	1,467 38,749 2,533 2,870	1,286 38,227 2,512 2,811	1,165 38,332 2,555 2,773	1,548 37,959 2,713 3,264	1,494 37,428 2,076 3,182	1,360 36,530 2,689 3,096	1,317 36,018 2,634 2.846
354	material-handling equipment. Netalworking machinery General industrial machinery.	8,246 2,512 3,735	8,294	8,206 2,476 3,670	8,562	8,589 2,544 3,715	8, 739 2, 560 3, 725	8,308 2,436 3,671	8,150 2,314 3,650	8, 399 2, 238 3, 520	8,436 2,525 3,701	8,394 2,466 3,743	8,345	8,425	8,503	2,378	8, 289 2, 298 3, 406	8,255
See	See footnotes at end of table.										-							

Fig. 130, 150,						Seasonally	ally adjusted	q						Not	seasonally	y adjusted			
PROSECTION Professional Pro				Honell															
Page Page	CIC	versebol		Month	1				inarteriy						Month	1y			
Principle Prin	710	6.200.200.200.200.200.200.200.200.200.20	Figh	Ton	Door	Non	111	-	-	A1	=		Last 4 m	onths		Las	4 conths	a year ago	
NUMERIN COUNTY AND PROPERTY A 19			1981P	1981 ^r	1980	1980	1980	1980	1980	1979	1979	Feb. 1981	Jan. 1981	Dec. 1980	Nov. 1980	leb. 1980	Jan. 1980	Dec. 1979	Nov. 1979
Heritack redshervers 1,150		INDUSTRY GROUPS AND INDUSTRIES																	
Commission of the continue o		Parable goods industries							_										
Heretrical achiners and sequences and sequen		Continued																	
Comparison Com	361.2		22,826	22.567	22, 135	22, 107	22, 095	21,861	21,620	20,598		22,703	22, 237	21, 763	21, 799	21,291	20, 726	20,241	19,804
Non-contain appliances 1,976 1,427 1,975 1,9			60047	3,923	3,904	3,867	3,955	3,982	3,868	3,770	3,637	3,997	3,918	3,888	3,838	3,912	3,813	3, 758	3, 72%
Attractive measurement of \$1.75	363	*	1,976	1,947	1,974	1,895	1,893	1,998	2,161	2,116	1,958	1,952	1,908	1,880	1,787	2, 134	2,065	2,034	1,896
Prince read continue 1,525 1,525 1,526 1,526 1,525 1,526 1,527	355	Radio and TV	1,157	1, 139 g 601	1,095	1,045	8 426	1,084 7,992	7 741	7 095	6.588	8.717	8.577	8,348	8,550	7.507	7,301	7, 021	6.903
Transportation equipment	367	Flectronic components	3.521	3.459	3.475	3.404	3,383	3,386	3,240	3,099	2,897	3,511	3,428	3,437	3,359	3,216	3,110	3,058	2,976
Autocratic and parts. 7,441 7,188 7,105 7,482 6,012 8,812 2,498 7,531 7,105 7,498 7,531 7,105<	3.7	Transportation equipment	36,609	36,375	35, 229	34,541	33,950	32,688	31,447	29,916	28,638	36,883	36,276	34, 555	34,564	30,910	30,388	29,511;	30, 235
Statement and parts 24,567 24,422 21,502 21,504 22,136 21,517 15,559 24,771	371	Motor vehicles and parts	7,441	7,338	7,287	7,167	7,401	7,485	7,827	8,012	8,872	7,598	7,551	7,251	7,303	7,965	8,097	7,980	8,812
Headers Head	372,6	Arreraft, missiles, and parts	24,567	24,422	23,502	22,844	22, 136	20,589	19,049	17,417	15,549	24,731	24,171	23,066	22, 710	18,423	17, /83	17, 102	16,883
Properties and related 8,589 8,438 8,448 8,428 8,239 8,237 7,755 7,271 8,596 8,428 8,236 8,237 7,757 7,271 7,187 7,927 7,9	3795	tank vehicles	2,756	2,690	2,577	2.595	2,383	2,386	2,130	2,165	2,034	2,651	2,579	2,430	2.627	2,044	2,000	2,052	2,221
Scientific and segments 6/10 0.000 0	20	instruments and related	0000	000	007.0	027	0000	0 303	8 237	7 765	7 4.71	8 596	287 8	870 8	76/ 8	8.130	8. (0)1	7.380	7,500
Phatographic goods 2,006 2,004 1,965 2,006 1,967 1,966 1,967 1,969 1,967 1,969 1,967 1,969 1,967 1,190 1,190 1,969 1,967 1,969 1,967 1,190 1,190 1,969 1,967 1,969 1,967 1,190 1,969 1,967 1,969 1,967 1,969 1,967 1,190 1,969 1,967 1,969	381-4	Separate and engineering	6 162	0,430	0,430	6,440	0,270	0,030	5 597	5 291	5.021	6,187	6.091	5.972	5.934	5.4941	5.417	5.217	5,142
will other durable goods 12,131 12,252 12,136 12,136 11,765 11,199	386	Photographic goods	2,009	2,024	1,965	2,005	1,982	2,083	2,155	1,986	1,941	1,993	1,980	1,862	1,945	2,158	2,136	1,885	1,878
Nondurable goods industries. 2,187 2,000 2,187 2,004 2,187 2,003 2,187 2,004 2,187 2,003 2,003	25	All other durable goods	12,131	12, 202	12,166	12, 131	12,279	12,046	12, 181	11,936	11.766	12,359	12,230	11,991	11,892	12,247	12,150	11, 768	11,715
West products. 21,66 21,50 21,55 21,75 21,	65	Nondurable goods industries.																	
West products 2, 2010 2, 2014 2, 099 2, 2161 1, 1918 1, 1818 1, 1827 1, 1737 7, 7046 2, 2005 2, 2019 1, 1919 1, 1099 1	2.0	2	21,187	21,050	21,362	21,756	21,337	20, 272	20,431	20,397	19,780	21,346	21,830	21,999	22,875	20,675	21,011	21,024	21,096
Exercise Fras and oils Fras	201		2,030	2,074	2,079	2, 161	1,918	1,781	1,851	1,927	1,757	2,046	2,065	2,019	2, 189	1,909	956.1	1,869	1,896
All other products. 1,522 11,77 11,601 11,776 11,777 11,776 11,777 11,77	202		3,735	3,831	3,860	3,776	3,738	3,869	3,830	3,845	3,6/2	2,830	2,900	3,840	2,556	2,0070	2, 134	2, 141	2,150
Trotace produces	203-6,9		11.625	11.371	11.601	11.770	11.706	11,152	11,333	10,999	10,975	11,625	11,962	12,147	12,617	11,152	11,462	11,538	11,708
Per la verille will productis	21		3,746	3, 739	3,524	3,771	3,722	3,529	3,506	3,503	3, 762	4,019	3,982	3,749	3,832	3,762	3,771	3,727	3,452
Paper and all large products. 7, 870 7, 677 7, 677 7, 777 7, 775 7, 778 7, 778 7, 778 7, 779	2.2	Textile will products	6,326	6,256	6,187	6,068	5,876	6,085	960 '9	5,844	5,695	6,431	6,270	6,028	5,848	6,003	5,936	5,694	5,611
Paperoptic containers	26	Paper and allied products	7,820	7,673	7,478	7,473	7,475	7,598	7, 296	6, 795	6,422	7,730	7,018	7,399	7,394	7, 073	6,859	6, 722	0,000
11 other paper containers. 2,503 2,803 2,803 2,807 2,807 2,803 2,909 2,9	265	Donoshound containers	2,198	2, 175	2,656	2.707	2,755	2,000	1 080	1 909	2.143	2,703	1 979	1,877	1.854	1.433	1.899	1.0053	1.830
Consensus and all led products. 19,116 [18,810 18,510 18,510 18,610 18,620 19,320 16,922 19,497	264	All other paper containers	2.963	2,003	0 897	2,887	7,817	2.912	2,881	2,568	2,445	2,926	2,904	2,872	2,853	2,732	2,608	2,046	2,500
10. Dillometrial characters, everet	28	Chemicals and allied products	19,116	18,810	18,516	18,610	18,489	19,330	18,677	16,982	16,492	19,497	19,194	18,855	18,016	18,776	18.227	17,280	15,822
Public range supply and followings. 9,106 9,790 9,794 9,773 9,743 9,740 9,740 9,740 9,770 9,740 9,770 9,740 9,770	281.6	Industrial chemicals, except					0 0	4			0.00	177	2 113	370 7	100.3	91	200	9000	5 100
Perroleum and coal products. 9,150 8	283 4	Drive come and postores	6,16/	6,016	5,900	5,994	7,887	6,453	6,055	0,240	4,973	5 811	5 77.2	5,653	2 76.2	100	5.34.	5.312	5,307
Robber and plastices products. A. 498 4,474 4,439 4,430 4,817 4,954 4,777 4,940 6,777 4,940 6,777 11,859 12,777 11,840 11,859 12,777 11,842 11,620	29	Petroleum and coal products	9,157	8,585	8,396	8,333	8,894	8, 753	8,002	6,581	6,343	8,945	8,737	8, 702	8,552	7, 133	7,056	0,816	5,685
All other modurable poods 13,027 12,859 12,649 12,709 12,851 12,852 12,353 11,950 11,859 12,770 12,111 12,185 12,770 11,882 11,620	30	Rubber and plastics products,										/22/	0 2 3	20 3 4	75	**	171	. 8 G.	000
All other moderable goods All other moderable goods 12,659 12,649 12,709 12,851 12,373 11,650 11,859 12,770 12,811 12,185 12,770 11,882 11,620	23	H-6-5-	7,001	4,498	4,474	4,393	4,470	7,81/	4,954	4.111	046,4	1, 1, 1	4,073	4,000	0	7	1111		2
	31	All other nondurable goods industries	13,027	12,859	12,649	12, 709	12,661	12,832	12,373	11,690	11,859	12,770	12,511	12,185	.2, 377	11,842	11,620	11,270	11,146

FRevised. Ppreliminary.

EShipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, untilled orders and inventories art as 51 the end of the period and are not an inventories. The supplementary series are regardings of the separate industry categories as follows: "The supplementary series are regardings of the separate industry categories as follows: Household durable goods industries—Household furniture: kitchen articles and portery, cutlery, handtools, and hardware, household durable goods industries—Household furniture: kitchen articles and portery.

uscellaneous personal goods.

Captial posts and arterial conditions and the defense products fold series) categories.

Captial posts and arterial expensions and the defense products fold series) categories.

Nonetense products—alteriately section of tarm machinery and equipment and machine shops), electrical mainteney (excluding farm and the order of sections).

Nonetenes productes products and order and arterial towards and reported comparation of support comparation of support comparations of maintening and replaced special comparations of maintening and replaced special comparations of maintening and particular parts, and shipbuilding. The data are comparable to those published annually in the AM-15, "Shipments is Federal Government Agencies Interior Shipments of Defense published annually in the AM-15, "Shipments to Example the Shipments of Defense products—also shippuilding.

8,432 1,124 7,520 1,84 1,788 1,792 1,792 1,792 1,774 1,929 2,587 2,056 2,056 2,056 9,182 2,452 5,452 5,402 8,750 4,356 4,356 4,356 4,072 4,072 4,072 1,804 4,072 1,214 0,351 5,351 5,351 5,351 6,472 8,854 6,473 3,674 6,127 6,127 7,127 7,127 7,103 7, mm, 7, mm, 7, mm, 7, mm, 7, 711, 7, 711, 7, 711, 7, 711, 7, 711, 7, 711, 7, 711, 7, 711, 7,808 801 801 7,408 7,408 0,098 8,524 3,535 2,611 2,035 2,045 5,000 6,408 25,681 36,577 36,556 2,556 4,542 4,542 4,542 4,330 4,330 4,330 4,330 4,330 4,330 4,330 4,330 4,330 4,330 4,340 4,3 4,013 7,588 7,588 5,683 5,683 6,418 4,633 6,425 6,425 6,425 6,425 6,425 6,425 6,425 7,726 0,443 6,734 6,130 6,130 6,850 0,850 0,850 0,850 1,493 1,493 1,544 3,124 3,124 6,860 7,688 7,500 11,196 2,445 3,840 2,645 2,645 2,645 6,707 7,377 37,377 2,668 3,997 4,645 3,986 3,986 4,255 4,255 4,019 1,895 3,568 43, 30 5, 30 73,073, 804, 11,148 22,449 3,783 1,781 12,788 12,788 2,705 2,705 2,705 2,705 2,705 5,405 2,683 2,683 2,683 2,996 4,996 4,290 4,290 4,290 4,290 4,290 4,290 4,290 4,290 4,290 4,290 4,290 4,290 4,290 4,290 4,290 75,144, 77,144, 77,144, 8,121, 117,883, 117,883, 117,883, 117,884, 13,128, 13, 76,303 38,038 2,746 5,233 4,783 10,044 4,634 4,033 4,389 2,382 3,382 1,966 23,092 23,092 7,500 7,500 7,500 7,541 7,541 1,775 29,124 2,912 2,912 5,353 4,749 10,514 4,754 4,754 4,754 4,754 4,754 4,754 4,754 4,754 4,754 38,486 3 5,776 9,417 9,634 1,534 1,534 1,771 1,771 1,771 1,774 9,873 5,821 2,575 2,575 5,144 6,424 6,424 9,202 4,393 3,947 1,867 4,272 4,052 2,700 2,382 1,023 4,114 6,85 1,145 1,140 1,140 1,140 1,170 1,170 1,170 1,170 1,170 8, 111 835 7, 837 7, 013 8, 455 7, 832 7, 832 2, 410 2, 444 2, 446 6 0,532 2,580 2,580 5,379 6,940 8,940 4,538 4,538 8,469 2,212 2,212 2,212 2,212 4,272, 4,889, 8,500, 8,000, 1, 3,936 7,195 7,195 5,532 5,532 9,195 9,195 1,948 1,948 4,396 6,741 6,741 6,741 6,741 6,741 6,741 6,741 6,741 6,741 7,620 5.51) 5. 1,502 1,891 1,891 1,398 8,034 1,771 1,611 2,611 2,611 2,645 6,709 8,336 2,930 2,930 6,110 4,961 3,898 3,898 4,307 4,307 4,307 1,879 11 8,475 9,478 8,640 9,488 9,050 9,050 1,489 1,489 35, 934 37, 203 37, 203 37, 203 37, 708 37, 6,756 8,475 2,774 2,774 5,178 6,633 0,477 20,843 2,322 3,322 2,433 2,433 2,433 2,433 1,240 1,240 1,240 1,240 1,240 1,240 1,240 1,240 1,240 10,243 6,814 8,403 2,811 2,811 2,253 6,220 6,220 6,782 4,782 2,119 4,551 8,411 8,411 1,999 3,344 11,878 1,000 1 87,033 74,040 8,052 8,052 111,343 122,748 3,879 2,787 2,787 2,787 6,860 6,860 75,584 38,340 5,238 5,290 4,721 4,066 2,137 4,509 4,509 1,134 8,848 8,848 8,848 1,940 1,940 1480 9,377 2,007 3,100 1,401 1, 2,377 2,7443 2,754 5,123 6,064 0,064 2,796 4,389 4,389 2,643 4,389 2,643 2,800 4, 14, 0 4, 10, 0 6, 10, 66,143 66,143 66,143 66,148 19,148 19,148 19,101 19,11 19,11 19, 6,351 6,351 7,208 7,208 7,208 7,208 7,208 7,397 7,397 7,397 8,171 8,171 8,171 8,171 8,160 481P

Table 6. PERCENT CHANGES AND REVISION RATES OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

			Pe	rcent chang	es			Re	evision rate	e ²
Item and industry group	M	onth-to-mon	th	Avera	ge monthly	rates of ch	iange ¹	Year ago	Average	monthly
Them and industry group	Jan Feb. 1981	Dec. 1980- Jan. 1981	Nov Dec 1980	Fourth quarter 1980	Third quarter 1980	Second quarter 1980	Mar. 1980- through Feb. 1981	Feb. 1980	Feb. 1980 through Jan. 1981	Feb. 1976-1980
Shipments:										
All manufacturing industries	-0.2	+1.1	+1.0	+1.4	+2.6	-1.9	+0.6	0.1	0.3	0.1
Durable goods industries	+0.7	+0.3	+0.4	+1.5	+3.5	-3.1	+0.5	0.2	0.3	0.3
Nondurable goods industries	-1.1	+2.0	+1.7	+1.3	+1.7	-0.7	+0.6	0.5	0.5	0.4
Inventories:										
All manufacturing industries	+1.1	+1.6	+0.2	+0.1		+0.7	+0.4	0.1	0 2	0.1
New orders:										
All manufacturing industries	-0.5	-	+2.1	+1.5	+3.9	-3.0	+0.5	0.1	0.3	0.2
Durable goods industries	+0.1	-1.6	+2.0	+1.5	+5.9	-5.0	+0.4	0 1	0.4	0 4
Nondurable goods industries	-1.1	+1.6	+2.3	+1.4	+1.9	-1.1	+0.6	0 4	0 4	0.3
Unfilled orders:										
Durable goods industries	+0.2	+0.4	+0.9	+0.6	+0.5	-0.5	+0.2	0.1	0 1	0.1

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

	Inv	entoriess	hipments ra	tio	Unfil:	ed orders (months'		atio1
Industry group	Feb. 1981	Jan. 1981	Dec. 1980	Nov 1980	Feb. 1981	Jan . 1981	Dec 1980	Nov . 1980
All manufacturing industries, total	1.56	1.54	1.53	1.55	3.49	3.51	3 52	3.51
Durable goods industries, total	2.06	2.06	2.02	2.02	4.16	4.18	4 18	4 17
Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products.	1.34 1.71 1.94 2.55 2.09 2.35 2.27	1.35 1.68 1.99 2.48 2.11 2.37 2.30	1.33 1.61 1.88 2.60 2.13 2.22 2.26	1.37 1.64 1.90 2.64 2.04 2.14 2.33	0.60 2.34 3.00 4.11 3.76 13.26 1.70	0 61 2 33 3 07 4.04 3.79 13.31 1.74	0.62 2.44 2.96 4.20 3.82 12.83 1.70	0.66 2.48 2.99 4 21 3.66 12.61 1.70
iondurable goods industries, total	1.06	1.03	1.04	1.07	0.67	0.68	0 70	0.69
Food and kindred products. Toxacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.c.	0.97 3.05 1.44 1.25 1.28 0.55	0.94 3.13 1.46 1.24 1.23 0.51	0.95 2.79 1.55 1.21 1.19 0.55	0.98 3.22 1.49 1.24 1.32 0.53	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X) (X)	(X) (X) (NA) (NA) (X) (X) (X)	(X) (X) (NA) (NA) (X) (X) (X)

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

⁻ Represents zero.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; and plastics products, and related products, and plastics products, and plastics products, and consider the products and considerable products.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Shipments, Inventories, and Orders

MARCH 1981

M3-1(81)-3

M3-1(81)-3 For Wire Transmission 2:30 P.M. E.D.T. Thursday, April 30, 1981

U.S. Department of Commerce

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in March increased \$2.1 billion or 1.3 percent to \$164.9 billion the Department of Commerce, Bureau of the Census reported today. Except for a slight decline in January, the value of new orders has been increasing since last June at a compounded rate of 1.9 percent per month.

New orders for durable goods for March increased \$2.4 billion or 2.9 percent to \$84.6 billion, revised upward from the 1.3 percent increase reported earlier. An increase in new orders for aircraft and parts of \$1.8 billion accounted for over 75 percent of the durable goods new order increase. Excluding the aircraft industry, new orders for durable goods were up 0.7 percent.

New orders for nondefense capital goods, increased 15.8 percent in March to \$23.8 billion, following a 16 percent decline in February. Although most of the components of the nondefense capital goods category reported order increases in March, over three-fourths of the \$3.2 billion increase was attributable to orders for aircraft and parts. New orders for defense capital goods were down \$0.6 billion or 10.6 percent to \$5.1 billion, following a 35 percent increase last month.

The value of shipments of manufactured goods in March was \$162.6 billion, up \$1.0 billion or 0.6 percent from February. A \$1.3 billion increase in durable goods shipments was partially offset by a \$0.4 billion decline in nondurable goods shipments. Within the durable goods category, the largest increases were reported by the aircraft industry, up \$0.9 billion or 20 percent to \$5.1 billion; and the motor vehicle industry up \$0.7 billion or 7.6 percent to \$10.1 billion. This is the second month in a row motor vehicle shipments have increased following declines in January, December, and November of 5.7 percent, 0.7

percent, and 2.6 percent, respectively.

A significant decline in shipments was reported by primary metals producers as steel shipments declined \$0.4 billion or

6.1 percent to \$5.8 billion, and nonferrous metal shipments dropped \$0.3 billion or 6.6 percent to \$4.8 billion.

Shipments by the nondurable goods industries declined for the second consecutive month. March shipments were down \$0.4 billion or 0.4 percent to \$80.2 billion, following a February decline of 0.4 percent. Major declines in the petroleum industry, down \$0.4 billion or 2.3 percent and the food products industry, down \$0.3 billion or 1.4 percent, more than offset increases in the chemicals and printing and publishing industries.

The unfilled orders level of manufacturers increased in March by \$2.3 billion or 0.8 percent to \$295.1 billion. In addition to a \$1.0 billion increase in the backlog of aircraft orders, the orders backlog for electrical machinery increased by \$0.5 billion or 1.2 percent to \$41.6 billion, and for fabricated metal products by \$0.3 billion or 1.2 percent to \$27.8 billion.

The book value of manufacturers' inventories in March was \$253.3 billion, an increase of \$2.1 billion or 0.8 percent from February. Almost one-half of this increase occurred in the petroleum industry where the value of inventories increased \$0.9 billion or 9.7 percent to \$10.1 billion. The inventory level of manufacturers in the nondefense capital goods category showed a decline for the month of 0.2 percent. Despite the large increase in the inventory value of the petroleum industry, the inventory to shipments ratio for all manufacturers in March remained the same as February at 1.56.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for April is scheduled for release on May 21, 1981, and the full report is scheduled for release on June 2, 1981.

A turni DEPONITORI

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF WANTEMCTURERS' SHIPMENTS FOR INDUSTRY GROUPS, WARRET (ATECORIES, AND SUPPLEMENTARY SERIES

							(Millions	of dollars										
				Seasonally	ally adjusted	-d						Yot	seasonally	y adjusted1				
			Monthly	nly		7	quarterly					Wonthly	4				Annual	
SIC	Industry		400	-			:	111		Last 4 To	ronths		last	+ months	a vear ago			
		1981p	1981	1981	. 26	, , , , , , , , , , , , , , , , , , ,	144		Mai 1901P	1 4 4 [J 4 4 [2 7 2 7	Mas.	1 2 2	195. 1980	Dec. 1979	1480	761
	TOTALS																	
	All manufacturing industries	162,583	161 620	101,148	159,323	485,351	1.3,742	10 10 17	169,835	7. 791	148,161	102,455	1	153, 33	las else	154 + 56 1	T48, 434, 1	10 17 760
	Manufacturing industries excluding transportation	145,543	146.186	1+5.80	141,485.	417,435	~	24	151,18*	£	1 54 77.	1	14 . +11	1.7,+58	15	1	1,619,352 1	175 -67
	Manulacturing industries with unfilled orders	85,904	84,227	83,065	8, .642	253,196	110,000	1.534	90,017	÷ ;	D 7 1	F54 F2	85 171	80,487	13.521	19 891	441,448.	893 221
	Durable goods industries	82,397	81, 178	89,259	Burry 7	243,734	30.00	111.111	87,621	7 7 1	. 111	*	, T X	÷ 11.	, 116°	'_2 '	900 723	8,61
	Orders	69,318	67.465	67,169	56,896	204,452	149,297	181,402	13,118	* * * * * * * * * * * * * * * * * * *	801,725	57	Park Park	165 54	58 514	59 177	120 252	723 730
	Nondurable goods industries	80,186	80.542	80,889	19.296	241,617	1 1 1 1	125 +13	82,214	, t	£ † † †	31+ +	2 7 7 7	4.614	7 6	1 - + 4	845 816	504 224
	Nondurable goods with unfilled orders	16,586	16 262	15.896	15 746	48,744	47.124	46.25.	16,899	X 7 7 7 1	14.773	15 1 14	13.55	17,397	In 557	14 013	184 377	140 041
	MARKET CATEGORIES														-			
	Home goods and apparel	11,935	12,048	11,682	11,251	35,665	34, 905	1 3 9 8 8 8 8 8 8 5 8 8 5 8 8 5 8 8 5 8 8 5 8	12,334	\$ 7 ×	25	4 41+ .8.542	26,683	11,519	9 918	4 700 t	133 379	125 °23 298,916
	Equipment and defense products, except automotive	24,650	23,115	23,442	22,771	71,207	68,430	11,419	26, 207	13,239	10,463	3.589	23, 289	12,132	18,958	21 743	263.897	236 354
	Construction materials, supplies,	13.636		13.703	11 613	41.024	67.07	566.03	13,673		11,194	12, 156	12,049	1162	11,482		1, 1, 192	148,806
	Other materials, supplies, and intermediate products	72,767	72,981	72,805	71 171	218,553	210,930	194,461	75,971	Î,	69, 123	0 .47x	71,651	49.857	610.20		801,557	730,782
	SUPPLEMENTARY SERIES?																	
	Household durable goods industries tries Capital goods industries Nondefense. Defense.	5,367 27,361 23,034 4,327	5,374 25,856 21,937 3,919	5,149 22,443 3,686	5,009 25,498 21,772	15,890 79,346 67,414 11,932	15,219 76,832 85,472 111,360	73,869	5,616 28,889 24,502 4,387	20.00	23,496 20,134 3,362	1427	5, 132 28, 254 21, 825 4, 24, 5	5,079 25,132 11,853 3,249	1,393 21,645 18 835	24 205 24 205 30 804	58,835 296,236 244,381	56,938 267 807 232 315 35,492
	INDUSTRY GROUPS AND INDUSTRIES																	
32 322 33 331	Durable goods industries: Stope. Clay, and glass Products Glass containers Prinary metals. Blast furneces, sreel mills.	4,467 393 11,786 5,838	4.614 422 12,493 6.217	4,536 12,530 6,205	4,567 412 12,586 6,635	13,617 1,237 36,809 18,260	13,235 1,212 36,667 18,697	12,281 1,224 32,184 14,221	4,584 465 12,916 6,568	4.23	3.759 376 11.663 5.926	3,968 374 11,305 5,819	1,999 402 13 355 6,477	3.858 355 12.944 5.922	3,756 326 12,208 5,605	3.576 310 10.699 4.927	49 509 4.517 15 7 984 544, 54	48 185 3 989 140 122 68.563
34		4,803	5,142	5,175	4,863	15,120	14,712	15,135	5,153	5,168	3,846	4.518	5,662	5.849	5.495	4.750	111,466	58.001
35 351	Metal cans, Darrels, and drums. Machinery, except electrical. Engines and turbines. Farm machinery and equipment.	15,619 1,178 1,178	15,248 1,225 1,083	15,562 1,356 1,196	895 14,729 1,135 1,145	2,552 46,429 3,759 3,429	2,505 44,128 3,522 3,479	2,360 42,099 3,297 3,281	805 16,974 1,412 1,400	823 15.560 1,304 1,155	14,153 1,237 1,131	708 14.922 1.138 956	863 15,286 1,244 1,196	783 14.659 1.171 1.194	718 12,736 1,039	13.742 969 984	4.806 169.318 13.362 12.967	10 046 157,695 13,156 13,258
354 356	construction, mining, and naterial-handling equipment. Metalworking machinery General industrial machinery.	2,691	2.766 978	2,764 931	2,676 948	8,221 2,850 3,702	7,697	7.658 2.584 3,584	2,825 1,068 1,413	2,836 1,018 1,240	2,607 826 1,020	2,478 1,007 1,242	2,990	2.948	2.617	2,502	31.534 10,789 14.463	31,813 9,497 13,245
0																		

See footnotes at end of table.

VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES -- CONTINUED Table 1.

							(Millions	(Millions of dollars)										
				Seasonally	ally adjusted	p.q						Not s	seasonally	$adfusted^1$				
			Monthly	hly			Quarterly					Monthly					Annual	
SIC	Industry	Mar	Feb.	lan.	Dec.		A.	=		Last 4 mor	months	_	Last	4 months a	year ago			
		1981P	1981r	1981	1980	1981	1980	1980	Mar. 1981P	Feb. 1981r	Jan. 1981	Dec. 1980	Mar. 1980	Feb. 1980	Jan. 1980	Dec. 1979	1980	1979
	INDUSTRY GROUPS AND INDUSTRIES Continued																	
	Durable goods and industries														_			
36,2	Electrical machinery Electrical transmission and distribution continent and	11,233	10,917	10,681	10,384	32,831	31,944	30,742	11,550	11,061	9,784	10.375	10,778	10,617	9.204	9.720	123,390	110,713
363	industrial apparatus		1,706	1,650	1,845	3,736	3,648	5,142	1,965	1,825	1,572	1,745	2,004	1,883	1,609	1.534	20,984	19,915
200	Communication equipment		3,279	3,171	3,020	762.6	9,435	9,418	3,608	3,274	2,926	3,141	3.175	3,145	2,598	3,183	36,995	32.143
371	Transportation equipment,	17,040	15.534	15,342	15,837	28,465	48,387	26,243	18,649	1,955 15,935 9,675	13,895 8,568	15,011	1,911 16,368 9,938	1.826 16.274 10.224	13,853	1,563 13,960 8,003	21.973 179.187 106.030	17,820 194,461 129,364
3/2,6	Aircraft, missiles, and parts.	5,148	4,295	687'7	4,508	13,932	13,962	12,942	5,431	4,428	3,798	4,791	4,286	3,999	3,219	670.7	51,134	43,804
3795	tank vehicles	870	855	842	773	2,567	2,212	2,459	829	608	7.36	873	885	798	769	976	9,738	к. 693
381-4	products. Scientific and engineering Photographic goods	3,850 2,262 1,386	3,809	3,691 2,139 1,372	3,735 2,207 1,329	11,350	10,984 6,370 4,077	10,463 5,994 3,946	3,935 2,355 1,367	3,676 2,113 1,368	3,324 2,019 1,145	3,714	3,719	1,993	3.030 1.832 1.034	3,248	24,156 24,156 15,750	36 253 21.082 12.757
24 25 39	All other durable goods	8,178	8,366	8,099	7,956	24,643	23,842	21,936	8,475	8,023	6,791	7,185	7,699	7,709	6,832	6.795	89.843	90,885
20 201	Nondurable goods industries: Food and Kindred products	21,689	22,003	5,479	22,378	65,970	66,318	65,186	22,291 5,235	5.362	20,963	5,522	20.942	20.391	18.903	20,352	252,071	
207	Fats and oils	1,998	1.724	1,862	1,858	5,584	5,433	5,070	2,417	2.279	2,128	2,265	1,754	2,248	2,114	2,215	19.866	27,659
21 22 22 22	E	1,159	1,259	1.196	1,264	3,614	3,666	3,542	1,134	1,169	1,146	1,281	1,019	1.061	1,002	1,052	13,784	
26	Paper and allied products	6,358	6,325	6.191	6,201	18,874	18,261	17,791	6,544	6.448	5,824	5,720	6.032	6,66,6	5.705	5.156	70,491	
265	Paperboard containers	1,464	1 474	1,406	1,395	4,344	4,086	3,867	1,515	1,481	1,323	1,264	1,394	1,381	1,302	1,110	15,913	
28	Chemicals and allied products	15,357	15,020	15,286	15,589	45,663	43.871	39,699	16,438	15.951	1,707	1,663	14.766	13,837	1.318	12 533	167 390	
283,4	cupt pigments	5,574 3,771 16,365	5,348 3,905 16,744	5.227 4.038 16.964	5,256	16,149 11,714 50,073	11,838	13,200 11,802 42,639	6,064 3,997 16,063	5.578 3.987 17 069	4,956 3,815 16,844	4,951	5,370 3,849 14,578	5,010 3,608 14,568	4,658 3.322 13,827	4,331	45.303	51,793 40,147 134,041
	n.e.c.	3,417	3,506	3.664	3,574	10,587	11,180	11,088	3,641	3.557	3.330	3,239	3,879	3.930	3.677	3,279	41.995	44,742
27	All other nondurable goods	11,440	11,302	11,037	10,934	33,779	33,110	32,044	11,415	11,382	9,807.	1 ,085	10,495	1 -, 602	9,596	594'6	174 272	115.234
Ppro	Ppreliminary. "Revised.		1								-							

¹Superents and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of trading-day or calendar-month variations of the separate industry categories as follows

²The supplementary series are regroupings of the separate industry categories as follows

Nousehold durable goods industries—Nousehold furniture, kitchen articles and pottery; cutlery, handrools, and hardware; household appliances; radio and TV. ophthabric goods

and electronic components), and neous personal goods infustries—Comparable to the previous producers' capital goods and the defense products (old series) categories.

(apital goods infustries—Comparable to the previous producers' capital goods and the defense producers—Sechnicy, except electrical excluding form machinery and equipment, accommunation equipment, arrist and arrivant for parts of Shipbuilding and repairing equipment, communation equipment, arrist and arrival to advance, communation equipment, arrival to a separate reports on defense work filled by large defense contractors in the following industries—Officers on separate reports on defense work filled by large defense contractors of forms of comparable to those published annually in the MA-15. Shipments to Federal Government Agencies" (forwerly, Shipments of Defense-Ortented Industries). For the specified industries

and clocks,

Table 2. VALUE OF WARDENCTURERS VEW ORDERS FOR INDISTRY OROLPS, WARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Williams of dollars)

				Season	Seasonally adjusted	pa						Not		seasonally adjusted1	1			
			Nonthly	hly			quar*erly					Monthly	5.				Vnnual	17
SIC	Industry		A S	Ton	- 1		14.	1		Last 4 m	4 7,30,05		Last	4 months a	a vear ago			
		Mar. 1981P	1981	1481	1+80	1.831	1984	1980	Var.	Fet.		Dec. 1980	Na.	Feb. 1480	Jan. List	Dec. 1979	**************************************	7
	TOTALS																	
	All manufacturing industries	164,865	11.,759	167,090	16, , 157	444,714	478, 18t	44 1, 543	17.7,280	15 ., 214	1 .,. 1	1,748	154,140	134,44.	14 , 44 5	142, (8h]	1,809,72	d1,732,415
	Manufacturing Industries excluding transportation	146,715	146, 931	147,4.4	Less, +38	4 49,572	-30,853	461,200	155,338	1.1.1.	13, ,358	[38,54)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1019,010	1. 4,48.	12.056 1	1,4,0,480	1, 11,,44
	Vanutacturing industries with untilled orders	88,186	80,356	84,607	85,46	185,589	251,455	3., 11)	Shung L.	7 %	17	,		H., 147	74,380	1,818,	454,581	933,4135
	Durable goods industries	84,577	82,.04	81,334	82,630	248,122		J. 1,417 .	84,987	83,104	7	78,+31	i	8.,230	1, 1, 3,	23,100	114,731	421,580
	Durable goods with unfilled	71,498	260 6 5 3	418,746	64,5,3	208,840	0,11,1	187,64	75,484	?	1,532	12,463 !	100 5 464	+8,704	Pic S Sid	r., 13c	784,634	7:1,133
	Nondurable goods industries	80,288	80,550	86,754	24,503	241,592	254,34.	l	82,293	81,802	76,059	7, , 367	11,503	74,71.	111,111	086,84	845,041	8.05,435
	orders with untilled	16,688	14 , , 70	10,761	15,453	48,719		4. 3. 3. B	16,978	11,785	14,884	15,084	, s, ·	1 ,413	14,826	13,682	183,602	171,532
	orders,	63,600	nu 280	hu, 443	118.4 2.4	142,8751	187, 183	177,881	1 515,315	, 117	41,173	61,.48	100, 17, 15	*****	Su. 485	35,148	711,439	13,433
	MARKET CATEGORIES																	
	Home goods and apparel	12,041	1,,386	11,8,1	11,259	86,248	34,143	52,1°,1	12,494	1.,334	1 ,167	1,761.	11,630	11,676	24,233	26,060	132,744	125,005
	Equipment and defense products, except automotive	26,087	23,818	11,026	25,073	75,753	35,374	31,444	27,205	11,738	10,348	25,88n 10,0r6	24,458	22,266 12,101	22,236,10,364	23,988	275,139	258,447
	Construction materials, supplies, and intermediate products	13,941	13,6+0	13,551	13,060	41,132	40,370	3. ,430	13,940	17, 32	11,347	12,382	12,231	12,374	10,83н	11,660	146,812	144,383
	intermediate products	73,103	7.,875	71,280	71,377	217,264	213,440	14, 32,	877,448	7,40,0	69,308	180,83	7.,13	72,305	98,334	61,489	804, 175	744,670
	SUPPLEMENTARY SERIES ²																	
	Household durable goods indus- fries (Spital goods industries Nondefense Defense	5,463 28,897 23,838 5,059	20,247 20,590 5,657	5,322 28,706 24,513 4,193	27,498 21,673 21,673 5,825	16,538 83,850 68,941 14,909	14,454 78,326 64,140 14,186	14,347 77,178 61,834 15,334	5,744 29,873 24,918 4,955	.,734 .11,347 5,251	4,533 27,171 22,701 4,470	4,559 27,889 21,026 5,863	5,.3r 28,081 23,574 4,507	5,270 25,753 22,413 3,340	22,873	4,194 20,420 22,571 3,849	58,385 310,513 255,638 55,025	55,939 299,216 259,721 39,495
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33 331	Durable goods industries Stone, clay, and glass. Primary metals	4,437 12,048 6,130	12,412	10,471	4,446 12,899 6,784	13,549	13,261 39,673 21,038	12,131 34,777 16,620	13,799	13,261	3,806	3,422	12,869	3,904 14,193 5,812	3,914 13,669	3,562	49,186 138,680 65,461	48,145 142,882 69,121
35	M FE	4,810 10,542 15,558 1,232	5,181 10,124 15,281 1,187	4,674 9,705 16,545 1,710	5,008 10,514 15,100 956	14,665 30,371 47,384 4,129	15,358 30,519 44,728 3,589	15,436 26,046 41,925 3,298	5,442 10,804 16,998 1,465	5,361 9,891 15,933 1,245	4,551 8,929 15,245 1,444	5,016 9,754 15,021 1,157	5,495 4,977 15,308 1,238	6,154 9,986 14,945 1,090	6,227 8,330 14,153 1,169	5,205 8,96- 13,802 1,081	61,144 110,702 167,648 13,208	59,802 111,622 163,304 13,174
354 356	Construction, mining, and material-handling equipment. Wetalworking machinery. General industrial machinery.	2,949	3,071 823 1,139	3,171 1,000 1,381	3,016 953	9,191 2,586 3,891	8,420 2,568 3,633	7,745	3,142	3,158 879 1,247	3,056 831	2,916 901 1,128	3,036	3,108	2,977 982 1,195	2,734	31,887 10,562 13,453	32,301 11,486 13,491
Soo	Class to account of action																	

				Seaso	Seasonally adjusted	pe						No	Not seasonally adjusted ¹	y adjusted	1			
			Mont	Wonthly			Quarterly					Monthly	.ly				Annual	1
	Industry									last . r	+ m 10 1 h 4		Last	last 4 months a year	vear ago			
		Mar, 1981	Feb. 1981r	Jan. 1981	Der. 1980	1981	1980	1980	Mar, 1981p	F(b,	Jan. 1981	Dec. 1980	Nar. 1980	Feb. 1980	Jan. 1980	1979	1980	1474
-	INDUSTRY GROUPS AND INDUSTRIES																	
ā	Durable goods industries																	
	Electrical machinery	11,731	11,542	11,420	10,565	34,693	33,122	30,444	11,923	11,749	10,831	10,344	11,401	11,680	10,052	7,837	127, 205	115,785
	distribution equipment and	2,085	1,810		1,905	5,755	905,2	696,4	2,045	1,959	1,882	2,744	2,047	7,048	1,547	1,519	21,330	5,5
	Household appliances	1,195	1,281		1,158	3,735	3,601	3,439	1,255	1,287	1,116	1,082	1,185	1,1/7	0000	587	8,458	7
	Radio and TV	3.773	3.495		3,348	11,034	10,780	9,712	3,867	3,421	3,547	3,432	3,432	3,527	3,115	3,282	40,322	34,
	Electronic components	1,942	15,828	1,695	1,619	5,631	5,564	48,024	2,055	2,104	15,713	1,485	2,177	2,194	1,925	16,030	21,845	20,41r .1b,523
	Arcraft, missiles, and parts.	6,178	4,361	2,467	4,997	16,006	12,907	14,748	5,957	4,028	5,327	5,336	5,315	4,130	5,347	h,286	62,897	65,746
_	Shipbuilding and military tank vehicles	076	1,091	856	1,089	2,887	3,041	4,4>7	9.81	1,089	666	1,513	1,,114	73.2	744	3.07	12,415	7 7
	Instruments and related products	3,800	3,837	3,763	3,909	11,400	11,090	10,401	3,941	3,702	3,343	3,944	3,828	3,430	3,251	3,359	42,380	37,144
	All other durable goods	8,311	8,544	8,291	8,00,	25,146	23,868	21,669	8,681	8,250	6,928	7,110	7,924	7,760	+ 89°	6,0,0	56,437	11,170

radio and TV, opthalmic goods, watches, and le maintenance and Sappages and new orders are the totals for the period and are adjusted for trading-day and salendar-month variations, untilled orders and inventories are as of the vent of the period and are not adjusted for trading-day or calendar-month variations.
The supplementary sectes are regroupings of the separate industry categories as follows
The supplementary sectes are regroupings of the separate industry categories, cuttery, handroots, and har-ware, honsohold appliances.
Household durable goods industrias-chousehold furniture, bitchen article, and pottery, cuttery, handroots, and har-ware, honsohold appliances. rRevised.

neous personal pools, and a state of the previous producers' capital goods and the Jackense products (old series) categories, and an abstract of the previous producers' capital goods and an analysis of the previous producers' capital capital and an area of the previous producers' and an area of the previous and relatively equipment, communication equipment, and anticast parts, and an area of the previous producers portions of shipmildten and represent the non-content reason in the following. The many and an area of the previous producers are the following the previous products capital and area of the previous content or as in the following producers, breaked on separate reports of defense and fall and a previous products capital and an area of the previous products and area of the previous products and area of the previous products are a capital products are also as a previous product and a previous products are appearable to these abstracts are appearable to these abstracts are appearable to the area and a previous products are appearable to the product are appearable to the previous products are appearable to the previous products are appearable

Table 3. VALUE OF MANIBUTINESS, UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

							Cullions of follars	f follars										
					Seasonal	Seasonaliv allustra							Vot	seasonally adjuster!	adjusted.			
			donthily	hly			25	quarterly.						Vonthly	2			
>10	Industry	1 2	Lean	-								[as' + "g	-onths		Last	4 months	a year ago	
		G (N)	-	1487	1 186	÷					War.	het.	Jar.	lec. 1981	Mar.	Fet.	lan. 1480	1 To 1
	TOTALS							1	†	İ	1							
	All samufacturing industries	230,044	242,811	14,67	20,00	14.1	1				. 141,14	de ul fr	. 25,033	2		. HP. D.	283,485	277,153
	Manulacturing industries	180,081	178,872	1,8,0.0		1		¥.		5 7 7	181,418:		400	1 577.473	1. CBR	le1,	1, 121	173,713
	Durable goods industries	284,130	281, 453	340, AB	7					4	2 3111, 200	24.5. A.			. 0.0		1,353	.69.
	Nondurable goods industries	Ist, 3804	10,56%		1 1	1 . FT.	1.,563	12,403	13,831	13,241	617.03	.,.	11, 11	1 p 15 (v)	12, 384 ;	11,540	11.6**	11,30
	WARKET CATECORIES																	
	Home goods, appared and consumer staples.	7	4,+14	7 8	÷.	-,	2	1. 7	- - -	+ +	1.	, ;	1 2	· · ·	;	· , , , , , , , , , , , , , , , , , , ,		1.33
	Equipment and detense products, except automotive	169,331	167,8,4	(R, 54)	1	20,50,	1 1 .	11-,	1, 444		169,8,6,1	66, 74	166,15	154, 814. 1	2 2 7 7	158,54	1.8,414	155,241
	construction materials, supplies, and intermediate products	20 116	14,811,	14,815	1	14,883	21,623			11,12	11.	14,835	, kp3	14,765	20,802	35, 50, 3	26,541	20,648
	Other materials, supplies, and intermediate products	101,094	100, 700	100,84.7	3 12, 18	4.8.4.4	34,45	1 e, 3+P	14,171	m. 76.	102,764	101, 38u	Life, and	1 1 1 1 1	015,473	163,012	100,383	47,041
	SUPPLEMENTARY SERIES?								-									
	Household durable goods indus- tries. Capital goods industries. Nondeferse. Defense!	3,615 198,121 134,543 63,878	5, 527 196, 582 113, 738 52, 854	1 18,087 115,087 51,102	134 blb	. 25.25 27.24 27.24 27.24 27.24	1,385 188,821 13,,812	18,51 11,131 11,131 11,131	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	4.25 4.25 4.35 4.35 4.35 4.35 4.35 4.35 4.35 4.3	1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	147,745	147,462	193,785 1132,815 132,815	2,535 186,004 136,312	3,431 184,180 135,561 48,619	3,240 183,532 135,004 48,328	131,567
	INDUSTRY CROUPS AND INGUSTRIES									_								
33	Durable goods industries Stone, clay, and glass. Primary metals.	2,509	2, 240 24, 195 18, 053	23.183 18,100	19,048	15, 283	100	25.00	1 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 X	30,829	0 9 7 7 8 1 0 7 7 8 1	22,24	2,453	30,463	11,449	30,149	2,778
84-7-181 8-7-181 8-3-1-19	Wonferrous and other primary retal products	9,084 27,849 58,071	7, 177 7, 132 58, 130	1,038	2,544 (7,612 5.116	56,013 56,013 56,014	8,541 28,027 56,645		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1, 478 1, 478 16, 285 16, 285		27, 565 58, 555 16, 823	9,120 27,503 57,754 16,882	9,263	9,933 28,654 60,168 16,784	10,100 28,370 50, +5 16,745	27,954 54,759 10,875	7,063 28,193 58,343 16,828
354 354 356	Engines and turintes. Construction, mining, and material-bandling equipment. Metalworking machinery. General industrial machinery.	9,749 h,658 b,272	4,441 0,836 0,23	9,186 6,490 6,322	8 .80	6,172	7,768	8,87, ,188,	1,1423	8,041 6,757 7,234	× 25.	6,754	9,159	8,710 6,887 6,016	8,922 7,183	8,875 7,528 7,075	8,716 7,131	8,356

See footnotes at end of table,

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATECORIES, AND SUPPLEMENTARY SERIES-CONTINUED

(Millions of dollars)

							CHATTANA	(Withing of dollars)	, ,									
					Seasona	Seasonally adjusted	q						Not	seasonally	Not seasonally adjusted			
			Mon	Monthly			3	Quarterly						Monthly	1.0			
SIC	Industry group						:	,	**	1111		Last 4 months	onths		Las	Last 4 months a year	a year ago	
		Mar. 1981	1981	1981	1980	1980	1980	1980	1979	1979	Mar. 1981	Feb.r 1981	Jan. 1981	Dec. 1980	Mar. 1980	Feb.	Jan. 1980	Dec. 1979
	INDUSTRY GROUP AND INDUSTRIES																	
36	Durable goods industries (nationed Electrical machinery	41,572	41,074	40,452	39,710	38,534	38,830	37,944	35,631	34,858	41,484	41,108	+0,423	39,374	37,863	37,179	36,119	35,265
361,2	Electrical transmission and distribution equipment and									7,418	8,295	8,213	8,080	7,770	7,069	7,026	7,+62	7,423
363	Household appliances									407	977	438		368	3.2.1	3.34	322	310
365	Radio and TVCommunication equipment	21,244	20,815	349	313	18,659	416	17,592	342	15,803	21,207	20,949	20,803	310	17,560	17,102	16, 721	16,209
367	Flee transc components									7 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10,092	10,023		9,910	10,442	10, 727	10,354	10,040
372,4	Aircraft, missiles, and									73,098	92,23	91,763		90,525	0.000	81.2.1	81.141	28.810
3731	Shipbuilding and military		14,282	14,045	14,032	13,205	11,205	11,237	11,247	11,140	14,437	14,286	14,305	13.742	11,233	10,973	11,000	11,004
30	Instrument, and related		05+49	6,412	6,341	6,232	6,295	6,459	5,985	5,830	6,374	6,369	6,3+3	6,323	0,1	0,333	b, 188	5,967
n =	All other durable goods			3,033	2,841	2,817	3,084	3,514	3,317	3,297	3,221	3,014	2,781	1,044	5,384	3,164	3,114	3.054

Preliminary. TRevised,

Uniquents and mes orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and naventories are of the end of the period and are not allusted for tradingday or calendar-month variations.

The supplementary series are consistent and other and clocks, and c

Household durable goods industries-Household furniture; kitchen articles and pottery, cutlery, handtools neous personal goods.

recomposed and are previous producers' capital goods and the defense products fold scries) categories.

(apital goods and stress-Comparable to the previous producers' capital goods and the defense products-Manhabut farm and architects and and another good and another goods. As shapping the architects and architects, and ordname, and ordname, and ordname, and ordname and restricts and strength and strength parts, and ordname and strength and st

Defense produces-alssed on separate reports on defense sork filed by large defense contractors in the following industries. Orinnate communication equipment, air that that air the first industries, the resonance of the produce of the federal Covernment them is a federal deventment against a fine or the produce of the federal Covernment probably affected the awarding of contracts and other finantial attractions. Missing the instance of this standard is a since help a factors and in a since help of the federal and other finantial attractions. Missing natural. Therefore, becaming in 1987 1977, as contracts and other finantial attractions. Therefore, becaming in 1987 1977, as contracts an applied to several attracts, and an anti-produce of the federal covernment probably affected in the contract and other finantial attractions. Therefore, becaming in 1987 1977, as contracting an applied to the contract and attraction of the firest variable to the previous attention at the seasonal factors and the seasonal factors and the seasonal factors at 10 and of the analysis of the change in the installed by the contraction of the change in the installed by the contraction of the change in the installed by the contraction of the change in the installed by the contraction of the change in the installed by the contraction of the change in the installed by the contraction of the change in the installed by the change in th

Table 4. ANTE OF WALEN PURPERS. INVENTORIES BOR PARASERY RAITS, MERKET ATELOHIES AND TELEMENTARY SELLES.

(Millions f dollars)

					vilenoseav	mars, its villa	prot						2	s.asonally	advested!			
			M. stra	Worthly.			y	urterly						South.x	4			
1.	Industry	Mar	Pob	Ton	Tiese	111	1.1	-	2	111		Last & B	months		Last	t + wonths	a ye at as a	
		1 187	1981	1981	1 480	1.480	1,480	1980	1474	1.77	Mar. 1981F	1 4811	Jan.	1980 1980	Mar.	Feb. 1980	Jan. 1480	- 70 T
	MIMS																	
	VII ganufacturing industries	253,289	251,211	248,408	244,493	245,615	243,630	, 38, 52.	.28,238	221,341	, See, 105	252,843	244,004	245,730	234,837	236,758	233,547	227,658
	Clotting truesportation	216,466	224, 16.2	212,033	100,264	2019,665	210,942	27,075	148, 547	142,763	217.384	210,44	.13,278	204,075	208,128	200,848	203,15-	148,147
	and the state of t	175,539	174,835	173,236	10 1, 244	168,421	168,682	164, 309	158, 7:	137,44	1.6.4.4	1. , co	17.,74	1,00.1	lrs, seb	165,102	160,445	156.524
	bur thic goods industries.	166,718	164,278	164, +38	161,407	les, es	160,404	157,127	lal, 684	146,048	168,322	157,425	164,833	166,308	158,721	3 36, 470	154,047	150,321
	orders	1 16,1 16	145,541	154,244	1.4,325	156,081	154,701	146,068	1.40,633	135, 137	1,7,284	1 + 282	154,140	149,895	147,148	145,121	142,447	134,434
	Nondurable goods industries	8b, 171	86,451	81,470	32, 186	25,450	8 1,17,6	81, 34,	7t , 36 4	12,243	86,253	, [† , , , , , , , , , , , , , , , , ,	1 t 1	83,422	81,116	50,285	74,436	77,337
	orders	1 4, 38 5	14,272	14,012	18,62+	218, 340	18, 481	18,441	17, 454	16,912	1 4, 364	14,134	13,750	15,244	18,+18	17,448	1 , + +0	17,0~0
	ALVIRIT CATEGORIES													-				
	Hone goods and apparel	18,638	18,417	18,247	18,118	17,845	18,2%	18,168	17,584	17,454	18,618	14,288 31,768	17,478	17,464	18,154	17,712	17,446	16,360
	except and detense products, except actorises	71, 284	71,612	71,105	9,223	4,347	57,81,	64,718 10,183	10,54	18,246	72,472	72,112	70,832	4,251	10,382	10,424	10,554	10,344
	Construction materials, supplies, and intermediate products	20,443	20, 270	20,109	20,035	19,649	19,054	20,166	14,646	18,943	20,461	20,7+1	20,183	14,725	26,672	20,036	19,581	14,348
	latermediate products,	101,782	100,065	98.131	45,951	9 19.	47, 506	44,867	84,311	85,476	101,236	100,366	.7. 87	46, 136	44, 44.3	44,076	42,575	0.00
	SCHM I MENTARY SCIENCE																	
	Household durable goods indus- tries topical goods indus- copical goods indus- Nondictess.	4,240 80,792 67,744 12,498	9,226 80,599 67,954 12,645	9,170 80,034 67,585 12,449	78,209	77,401 66,041 11,310	4,267 75,370 64,782 10,588	4,311 72,177 62,102 10,075	,180 68,640 54,178 7,462	8,852	4, 324 81, 5614 68, 559 12, 950	4, 20 R 80, 858 58, 258 12, 600	79,544 67,283 12,261	8,854 77,292 65,510 11,782	4,350 72,853 62,813 10,040	4,218 71,378 61,793	4,088	8,880 67,427 58,666 7,261
	INCLUSTED CROUPS AND INDUSTRIES												_					
322	8 X X	6, 183 21, 520	600 21,434	6,128 572 21,023	6,067	5,420 554 20,187	6,141 593 20,884	5,487	5,643	5,436 564 19,033	6,542 580 21,437	598 21,491	6,190 564 21,325	5, 455	6,134 585 20,303	5,438	5,723 548 20,390	5,541 50,153
333-h,		8,667	8,565	8,440	8,040	7,807	7,741	7,848	7,563	7,166	8,763	8,677	8,448	8,000	7,435	7,757	7,650	7,525
341 35 352 352	6 . 4 . 2	1,356 38,458 2,484 2,484	1, 513 36, 865 2, 522 2, 846	1,526 38,637 2,534 2,805	1,468 38,352 2,529 2,822	1,267 39,107 2,496 3,154	1,439 38,940 2,558 3,195	1,502 37,609 2,703 3,114	1,554 36,624 2,701 3,108	1, 347 35, 527 2, 630 2, 413	1,506 39,517 2,481 3,002	1,530 39,283 2,534 3,023	1,467 38,749 2,533 2,870	1,286 38,227 2,512 2,811	1,669 38,193 2,698 3,298	1,548 37,459 2,713 3,264	1,444 37,428 2,676 3,182	1,360 36,530 2,689 3,096
354 356	Construction, mining, and material-handling equipment. Metalworking machinery	8,354 2,407 3,662	8,229 2,425	8,294 2,457 3,716	8,206 2,476 3,670	8,589 2,544	8,739 2,560 3,725	8,308 2,436 3,671	8,150 2,314 3,650	8,099 2,238 3,520	8,546 2,417 3,717	8,418 2,437 3,773	8,394 2,466 3,743	8,345 2,459 3,626	8,499	8,503 2,403 3,727	8,506 2,378 3,653	8,289 2,298 3,606
See	See Cootnotes at end of table.																	

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--CONTINUED

(Millions of dollars)

				Seasonally	ally adjusted	pa	100	S				Not	t seasonally	ly adjuste	9		
		Monthly	1y				Quarterly						Monthly	hly			
	-	4	- to	, and	***			7.1			Last 4	months		Last	st 4 nonths	a year ago	
	1981p	1981r	1981	1980	1980	1980	1980	1979	1979	Mar. 1981P	Feb. 1981r	Jan. 1981	Dec. 1980	Mar. 1980	Feb. 1980	Jan. 1980	Dec. 1979
INDUSTRY GROUPS AND INDUSTRIES																	
functoried prods industries																	
Flectrical machineryFlectrical transmission and distribution equipment and	. 22,845	22,844	22,567	22,135	22,095	21,861	21,620	20,598	19,462	22,948	22,720	22,237	21,763	21,729	21,291	20,726	20,241
industrial apparatus	3,978	3,988	3,923	3,904	3,955	3,982	3,868	3,770	3,637	4,000	3,981	3,918	3,888	3,890	3,912	3,813	3,758
Radto and TV		1,161		1,095	1,093	1,996	1,053	1,039	970	1,169	1,123	1,084	1,058	1,019	976	974	1,005
ent		8,761		8,437	8,426	7,992	7,741	7,095	6,588	8,762	8,761	8,577	8,348	7,799	7,507	7,301	7,021
Flectronic components		3,517		3,475	3,383	3,386	3,240	3,099	2,897	3,481	36 900	3,428	3,437	3,263	3,216	3,110	3,068
arts		7 366		35,229	7 401	7 485	7.827	8.012	8.872	7.537	7.521	7.551	7.251	7.898	7.965	8.097	7.980
Arreraft, missiles, and parts		24,514		23,502	22,136	20,589	19,049	17,417	15,549	24,811	24,677	24,171	23,066	19,192	18,423	17,783	17,102
tank vehicles	2,883	2,855	2,690	2,577	2,383	2,386	2,130	2,165	2,034	2,907	2,746	625.2	2,430	2,146	2,044	2,060	2,052
instruments and related	8 630	795 0	807 8	0 7.30	0000	8 303	8 237	2 76 5	7 7.71	9 6 50	8 561	28.7.8	870 8	8 264	8 130	1008	7 580
Scientific and engineering	6,185	6,143	6,049	6,051	5,890	5,859	5,597	5,291	5,021	6,229	6,167	6,091	5,972	5,636	5,494	5,417	5,217
Ull other durable goods														3			
	. 12,287	12,237	12,202	12,166	12,279	12,046	12,181	11,936	11,/66	12,493	12,468	12,230	166,11	17,386	177,24/	061,21	11.700
Nondurable goods industries: Food and kindred products	21,250	21,164	21,050	21,362	21,337	20,272	20,431	20,397	19,780	20,987	21,323	21,830	21,999	20,181	20,675	21,011	21,024
Meat products	2,034	2,066	2,074	2,079	1,918	1,781	1,851	1,927	1,757	2,046	2,083	2,065	2,019	1,862	1,909	1,959	1,864
Beverages	3,898	3,782	3,831	3,860	3,738	3,869	3,830	3,845	3,672	1,879	1,984	3,900	3,845	3,919	2,070	2,134	2,141
All other foods	11,787	11,584	11.371	11,601	11,706	11,152	11,333	10,999	10,975	11,304	11,584	11,962	12,147	10,868	11,152	11,462	11,538
Tobacco products	3,650	3,627	3,739	3,524	3,722	3,529	3,506	3,503	3,762	3,803	3,891	3,982	3,749	3,653	3,762	3,771	3,727
Textile mill products	6,330	6,339	6,256	6,187	5,876	6,085	960*9	5,844	5,695	6,444	6,445	6,270	6,028	6,204	6,063	5,936	5,694
Paper and allied products	7,952	7,889	7,673	7,478	7,475	7,598	7.296	6,795	6,422	7,887	7,800	7,618	7,399	7,232	7,073	6,834	2 313
Paperhoard containers	2,030	2,037	2,773	2,030	1 903	2,036	1 980	1,909	1 834	2.104	2,031	1.979	1.877	1.960	1.433	1,890	1,863
All other paper containers	2,988	2,982	2,895	2,897	2,817	2,912	2,881	2,568	2,445	2,935	2,945	2,904	2,872	2,824	2.732	2,008	2,546
Chemicals and allied products	. 19,488	19,175	18,810	18,516	18,489	19,330	18,677	16,982	16,492	19,696	19,556	19,194	18,855	18,855	18,776	18,227	17,280
	6,266	6,129	6,016	5,900	5,887	6,453	6,055	5,246	4,975	6,191	6,202	6,143	6,065	5,982	6,054	5,780	5,398
Betroleum and coal products	5,894	5,864	5,788	5,676	5,664	5,707	5,531	5,333	5,210	5,855	8,994	8,737	8,702	7,647	7,133	7,056	6.816
Rubber and plastics products,		107 1		0,530	2		70010	***									
B.e.C	. 4,738	4,650	7,498	4,474	4,470	4,817	4,954	4,777	076,4	4,845	4,762	4,579	4,505	5,078	4,964	4.970	4.804
All other nondurable goods industries	. 13,067	12,903	12,859	12,649	12,661	12,832	12,373	11,690	11,859	12,957	12,646	12,511	12,185	12,266	11,842	11,620	11,270
														_			

Shipment and mes orders are the rotals for the period and are adjusted for trading-day and calendar-month variations, untilled orders and mes orders are the rotals for the period and are adjusted for trading-day and calendar-month variations, untilled orders and inventories are the period and are adjusted for trading-day and calendar-month variations, untilled orders and inventories are the period and are adjusted for trading-day and calendar-month variations, untilled orders and inventories are the period and are adjusted for trading-day and calendar-month variations. indeficients or enterways series to repropose of the separate industry categories as follows:

"The supplementary series to repropose of the separate industry categories as follows:

"The supplementary series in the series of the separate industry categories and pottery, cuttery, handtools, and hardware household applicances; radio and IV ophthalms, series, extunes and research or series are series and series and series are series and series and series are series and series are series and series are series.

Countil costs indistries—Comparable to the pressure producers capital goods and the defense products old series of anothers of experience for the comparable of the pressure products—The comparable of the compar

Table J. SAPE, E. WATACLERE, INVESTIGES, SECRET OF EMERALLY B. DETS, E. BOTP. T. Maller St. F. Alder

						Tilli ns	A										
		10.00	100	Seasons	nally adjusted	50						2		341105.4			
No. of the state o		Tales.	ATU			7	671111						Me nthly	į			
V. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1981	1 +81	1481	144.	11 1	= f	ĭ	4.		1481	4 2	4 57	3.6	Har I 498.	- 1 B.	7	
TOTALS All manufacturing in unstri-	255, 189							r	7. 11	254,505	j	7	, ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	* * * * * * * * * * * * * * * * * * * *	5		
Durable goods industries,	166,718				14.2 4.43	200 4 72		, ,		- x-1							
Stone clay and glass products	6,383		8.1.0 8.2.0	4 F		7	. × .			31	C 7 .	191	101 308	134	138	7.0.	17)
	19,782] × × ×	1	7			- 1 - 1	1				, ~		· · ·
Electrical achimeny	22,845				77	, 1 4nl		ξ.		22, 445	; ,		3.5		; ; ; ;		· · ·
Instrucents and related products	36,823					* * * * * * * * * * * * * * * * * * *	: :,			2,131	100		7 0		0,43		. 4,511
All other durable goods tolustries	12,287				,	1. "	2.0	****		12,24	A		11.		12,24		7 7
Cheadcals and allied products	19.488				, x, x,	4 1	. [1 1		85,180	÷		100		80 .8k		
Petrolous and coal products	10,096				x. oc	· · ·		· ×		4,364			8 70.		10 75		5 415
Rubber and plastics products n.e.c	52,249				,	. i		. 1		1	· .		4 5		70-		10
MATERIALS AND SUPPLIES																	7 10 7
All manufacturing industries	84,495		8.4 to see	£						(- · · 3	- I		82, 441	1 T T T C T T	81 >>1	8]	
Durable goods industries	51,224	X,	10, 14R		1.77	;.	· .	3	£,	1, 15,		r	1.60,00	74.	7	14, 712	6 4
Stone clay, and glass products	2,552			2 4						285	67.		200	2 . 3	2.2.4	250	
Fibricate metals	6,686		4 4 4							7,711	X 7 7 7 8		× 0	e ala	058.4	707	
Nonelectrical machinery	10,648		10 80,	10 × 00					* 0 .	10,779	10 %		10.8.	11,050	16 984	10, 788	
Electrical achinery	6,218		F 1	100					4.1.4	, 185			1 9 1	0,140	846 9	2 49 3	
Transportation equipment	2,479		, 1941							211,	Ç (2 1 1	87 0	- i	- 1 · ·	
All other durable good; industries	666,4		4 94.	. 4.0					:	5,001	117			023	7.7	2,204	
Nondurably goods industries	53,271		1 866	45, 06.4					4 4 4 4	13, 60h	* [*		1	35	31 6.7	4 41	
Chemical, and allied products	7,290		×	× :						96.	704 .		87.	7	1 2	5.5	
Rubber and plastics products, m.c.c	1,831		18							1,748			A	1,355	1 81	1 701	
All other m ndurable goods industries	21,903		21 10						1 1	22, 117	1 1 60		1 490	1 014	21 473	1 852	
MORK IN PROYESS																	
All manufacturing industries	90,230	81,11		87 111	157 08	X			* 2 m 4 m	454,00	10° ' 0t	84 0.1		5	81 144		4
Durable goods industries	76,515	16. 187	76, 20	, a 160	18.30			_	×	77. sug	., 0.	7. 4. 4.			200		6000
Stone, clay, and glass products	196	2113	403	2,30	, K	- · ×	1 44	_	8.	1,0.50	000	400		7	8 35		I.
Primary metals	7,176	7, 120	200	P. 4+4	77.0	84.	4 100	_	7 7	7,700	(**!	£ 7		· C T Q	6 888		. 11.
Nonelectrical machinery	17,808	17,811	17, 741	1, 419	17, 70b	1. 11.				17,497	18 0 S	200		8, 51	00 J		68
Electrical machinery	11,762	11,742	11,491	11 56.3	11,345	10,729	13.3		1 4 3 1	11,825	7,7	11 400 1		10 581	10.58		. 8B .
Transportation equipment	23,581	2.83	23.74.	87	1	20,464	4	_	10.04	23,480	- 5 67	23 528		19.448	18,410		17 693
All other durable goods industries	2,908	843	. 881	200		108.	7 0	_	. 11.	3,465	2.5			2:	7.000		1,50
Nondurable couds industries	13 715	18 10	1 1 170	1, 6, 1	10 000	10 01	2		202 11	13 541		, ,		, ,	000.		710 7
Chemicals and allied products	2,868	2	2.584	2, 340	2.633	188	2, 70	7 7 7	2,671	2,890	2,735	2.087	2,861	2,725	2 729	2,646	11 6 2
Rubber and plastics products, n.e.c.	2,113	- F. W.	8.11	18.	0.7	5	194		30.00	888	x 1 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		862	36.		853
All other nondurable goods industries	7,179	6, 401	18.4	5,860	0.084	b(), '0	2 2		27.7	7,093	5 833	5 6		6.650	0.540		6,338
FINISHED GOODS													-				
All manufacturing industries	78,564	76,613	75.333	75, 584	76,736	16,613			5, 70	78,88h	17.8	76,393	15.405		.4.013	189.5	10 01
Durable goods industries	38,979	38, 303	37,345	18,)	, r . x	18 5.10			53 8.1	39,870	34,24	810.81	37,633		37,588	36,577	35,351
Stone, clay, and glass products	2,884	2,805	2. 54		40.00	2 430			2,5,3	2,984	433	£ .	2,583		2.832	2.556	2 431
Fabricated metals.	969'7	4,672	4,782	2000	4,741	1,797		_	4,4,74	4,861	7 20 7	2,533	4.744		2009	286.0	2,599
Nonelectrical machinery	10,452	10,243	10.034	10.047	10,401	10,110	_		9,20.	10,741	10 4.6	10.944	9,995		9 471	9.235	8.854
Electrical machinery	4,865	2,014	4, 796	4, 21	7.88.7	4. 461	_		4.533	076'7	4,157	4,034	25.5.2		4,830	1.668	F. 1. 1
instruments and related breducts	2,228	2.14*	2 134	2 117	2 003	5.848	_	_	1.947	7 238	4 0 58	4,033	3 985		3.820	3, 37	3.674
All other durable goods industries	4,380	(-0"7	4,389	4,509	487.7	4, 307			4,272	4,571	4.561	4,389	4,290		4,433	1,850	4 123
Nondurable goods industries	39,585	38 316	37,434	37,744	38,281	38,277		34,538	34,052	39,016	38,623	38.205	37, 70	36,304	36.4.75	36,104	3+ 490
Chemicals and allied products	9,330	9,156	9.043	8.848	4,154	4,805	_	_	7.4"	965 6	9,518	9,335	9,155		0 1	9 200	6
Rubber and plastics products	2,012	1.478	3.692	1,691	4,122	2 276	_		2,700	2,593	3,964	3.8.5	4,039		3.22	3.255	3,08"
All other nondurable goods industries	23,167	23,100	22,800	22,765	22,898	21,879	21,620		21,023	22,768	23,026	23,092	22,652	21,239	21,396	21,406	20,970
Ppreliminary. "Revised.												-					1

(Based on seasonally adjusted data)

			Pei	cent change	s				Revisions ²	
Item and industry group	N	lonth-to-mon	th	Avera	ge monthly	rates of cl	hange 1		Average	monthly
Item and industry group	Feb Mar. 1981	Jan. 1981- Feb. 1981	Dec. 1980- Jan. 1981	First quarter 1981	Fourth quarter 1980	Third quarter 1980	Apr. 1980- through Mar. 1981	Year ago Mar. 1980	Mar. 1980 through Feb. 1981	Mar. 1976-1980
Shipments:										
All manufacturing industries	+0.6	+0.3	+1.1	+0.7	+1.4	+2.6	+0.7	0.3	0.3	0.2
Durable goods industries	+1.6	+1.0	+0.3	+1.0	+1.5	+3.5	+0.7	0.4	0.3	0.2
Nondurable good industries	-0.4	-0.4	+2.0	+0.4	+1.3	+1.7	+0.7	0.2	0.5	0.3
Inventories:										
All manufacturing industries	+0.8	+1.1	+1.6	+1.2	+0.1	-	+0.5	0.0	0.1	0.1
New orders:										
All manufacturing industries	+1.3	+0.4	-	+0.6	+1.5	+3.9	+0.7	0.0	0.4	0.4
Durable goods industries	+2.9	+1.1	-1.6	+0.8	+1.5	+5.9	+0.7	0.0	0.5	0.6
Nondurable goods industries	-0.3	-0.3	+1.6	+0.3	+1.4	+1.9	+1.0	0.1	0.5	0.2
Unfilled orders:										
Durable goods industries	+0.8	+0.4	+0.4	+0.5	+0.6	+0.5	+0.3	0.1	0.1	0.3

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

		,						
Industry group	Inv	entoriess	hipments ra	tio	Unfil:		-shipments : backlog)	ratio ¹
Industry group	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980
All manufacturing industries, total	1.56	1.55	1.54	1.53	3.44	3.48	3.51	3.52
Durable goods industries, total	2.02	2.05	2.06	2.02	4.10	4.15	4.18	4.18
Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products.	1.43 1.83 1.89 2.49 2.03 2.16 2.24	1.36 1.72 1.93 2.55 2.09 2.36 2.25	1.35 1.68 1.99 2.48 2.11 2.37 2.30	1.33 1.61 1.88 2.60 2.13 2.22 2.26	0.62 2.49 2.96 4.01 3.70 11.70 1.66	0.61 2.33 2.98 4.10 3.76 13.32 1.69	0.61 2.33 3.07 4.04 3.79 13.31 1.74	0.62 2.44 2.96 4.20 3.82 12.83 1.70
Food and kindred products. Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products.	1.08 0.98 3.15 1.44 1.25 1.27 0.62	1.05 0.96 2.88 1.45 1.25 1.28 0.55	1.03 0.94 3.13 1.46 1.24 1.23 0.51	1.04 0.95 2.79 1.55 1.21 1.19 0.55	0.66 (X) (X) (NA) (NA) (NA) (X) (X)	0.67 (X) (X) (NA) (NA) (NA) (X) (X)	0.68 (X) (X) (NA) (NA) (NA) (X) (X)	0.70 (X) (X) (NA) (NA) (X) (X)
Rubber and plastics products, n.e.c	1.39	1.33	1.23	1.25	(X)	(X)	(X)	(X)

⁽NA) Not available. PPreliminary. Revised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

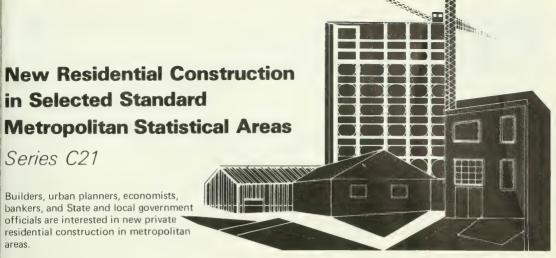
New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.





The following standard metropolitan statistical areas are shown in this series. . .

Anaheim-Santa Ana-Garden Grove, California Baltimore, Maryland

Chicago, Illinois

Cincinnati, Ohio-Kentucky-Indiana

Denver-Boulder, Colorado

Detroit, Michigan

Las Vegas, Nevada

Los Angeles-Long Beach, California

Miami, Florida

New Orleans, Louisiana

New York, New York-New Jersey

Phoenix, Arizona

Portland, Oregon-Washington

Riverside-San Bernardino-Ontario, California

Sacramento, California
Salt Lake City-Ogden, Utah
San Diego, California
San Jose, California
Seattle-Everett, Washington
Washington, D.C.-Maryland-Virginia

For these SMSA's quarterly data are provided on the number of housing units. . .

Authorized, by building permit

Started

Completed

Under construction

Authorized, but not yet started

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U.S. Department of Commerce

Manufacturers' Shipments, Inventories, and Orders

APRIL 1981

For Wire Transmission 2:30 P.M. E.D.T. Tuesday, June 2, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in April declined \$1.4 billion or 0.8 percent from March to \$163.3 billion the Department of Commerce, Bureau of the Census reported today. Except for a very slight decrease in January, this is the first decline in orders since the 0.2 percent decrease reported last June. Most of the decline in the April orders occurred in the nondurable goods area which was down \$1.1 billion or 1.3 percent to \$79.4 billion. For most nondurable goods industries, new orders equals shipments for the month.

New orders for durable goods in April were down \$0.3 billion or 0.4 percent to \$83.9 billion. The largest decline came from the fabricated metals products area, where orders dropped \$0.5 billion or 4.7 percent to \$10.0 billion. New orders for transportation equipment were down \$0.2 billion or 1.2 percent to \$17.5 billion, as all categories except motor vehicles and parts reported decreases. New orders for primary metals and machinery showed little change from last month.

New orders for the nondefense capital goods industries in April declined \$1.0 billion or 4.3 percent to \$22.8 billion. Most of the decline was attributable to the commercial aircraft and parts industry. Without the aircraft industry, nondefense capital goods orders were virtually unchanged from March. New orders for defense capital goods of \$4.9 billion also showed little change from last month as an increase in orders for aircraft offset declines in the other defense categories.

Shipments of manufactured goods in April were valued at \$162.3 billion, down \$0.2 billion or 0.1 percent from March. A billion dollar decline in nondurable goods shipments more than offset the \$0.8 billion increase in deliveries of durable goods. The decrease in nondurable goods shipments was due to large declines reported by the chemical and petroleum products industries. Shipments of chemicals dropped \$0.7 billion or 4.9 percent to \$14.7 billion, while petroleum products shipments declined \$0.5 billion or 3.0 percent to \$15.9 billion.

In the durable goods area, most industries reported small increases in shipments. The only large gains were in steel shipments, up \$0.4 billion or 7.0 percent from March and motor vehicle and parts shipments, up \$0.8 billion or 7.7 percent to \$10.7 billion. This is the third consecutive monthly increase in automotive shipments.

The value of manufacturers' unfilled orders rose \$1.1 billion or 0.4 percent in April to \$296.1 billion. Although most industries showed small increases, the largest percentage gain occurred in the steel industry where the orders backlog increased \$0.4 billion or 2.0 percent to \$18.7 billion. Within the capital goods categories, the orders backlog of nondefense capital goods producers was valued at \$134.6 billion, unchanged from March. Unfilled orders for defense capital goods increased \$0.9 billion or 1.4 percent to \$64.2 billion.

The book value of manufacturers' inventories in April was \$254.8 billion, up \$1.4 billion or 0.5 percent from March. This is the smallest 1-month increase reported this year, as the value of inventories rose 1.6 percent in January, 1.1 percent in February, and 0.9 percent in March. The December 1980 increase was 0.2 percent. The value for inventories of electrical machinery producers in April increased \$0.5 billion or 2.2 percent to \$23.3 billion, while those of nonelectrical machinery producers increased \$0.4 billion or 0.9 percent to \$39.3 billion. The inventory to shipments ratio for April was 1.57, up from 1.56 in March.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for May is scheduled for release on June 19, 1981, and the full report is scheduled for release on June 30, 1981.

NOTICE

S. T.

The next benchmark report in this series (M3-1.10) is tentatively scheduled for release in mid-June. This report will include revisions to the shipments and inventory series to reflect adjustments to the 1977 Census and 1978 Annual Survey of Manufactures and a recomputation of the factors used to seasonally adjust the individual series.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell. (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price. 30 cents per copy. \$3.60 per year.

Table I. VALLE OF MANTEM THERS, SHIPMENTS PIG TRICKING GRAFFS, WARRIT CATEGORIES, AND SUPPLEMENTARY SHIRES

							cullions of follar	of follar-										
			-	Seas onally	sally adjusted	la la la la la la la la la la la la la l		- ;				Yot	seasonally	v adjusted ¹				
			Monthly	uly		,	quarterly.					You to ly	ly vi				Vnnual	
SIC	In factory	Apr.	May.	Feb.	Jan.	-	- 1			Last 4 m	* 3mtl *		Last	4 nonths	a vear ago			
		19815	1981	1941	1981	1861	1980	1 +80	Npr.	1981	1 141	11m.	1980	Mar.	Feb.,	1980	ox,	1440
	TOTALS							+		1	-					-		
	All canufacturing industries	162,267	102,487	161,420	161,148	487,291	1,71,74	46%,04%	165,639	7	14 1 1 1	148,181	lar, 64!	157,049	153,732	139,629	646,208	597, 10,
	exclading transportation	144,841	14 ., sn	Lateronia	145,400	45,442	4.545.5		7.1.	1 1, 1 2		1 Stay 10th	131,715	140,001	137,-58	1 5,726	579,548	535,1448
	unfilled orders	88,250	8, 347	46,717	8 8,085	252,484	46,411	. 11,814	44, 7-	111	- 1	75,4 14	£ 1. 21 1. 5	81,171	411,487	73,0711	3 sh , 49	115,08,
	harmable goods industries	82,835	42,151	41,07H	46, 59	241, 384	19, 15		5 64 45 8	3	* 7	. , . 15	7	30,447	74,116	70,147	3, 5, 951	Jilla, hhu
	orders and antitue	64,756	18 × 81	67, 415	67,169	21.4, 181	i 94° 13	181, 4.	70,241	1,00	47,404	60,725	P 41.14	67,645	n85,54n	58,514	:7,171:	254,378
	Nondarable goods industries,	79,48	80,44	90,000	×11, 484	741,467	544.	1,747.3	5 1	- ;	74.47	Sall of	F	76,100	74,416	***************************************	320, 57	29, ,438
	orders	14 ,494	11,440	16, 16,	15,84	2 3 x 3	.,7,1114		16, 257	Je., 1	Ingaes,	14,775	7 -1	15,520	15, 397	14,557	805 ° 54	901,704
	MARKET CATEGORIES																	
	Home goods and apparel	11,904	11,489	l fears 8,4994	11,042	7 TE TE	2, 506	1 1, 2 2, 2	11,5кч н, 196	12,250 28,750	111,426 35,427	000,401	11, 3×7	11,540	11,519	9,918	45,814	43,364 101,864
	Equipment and defense products, except automotive	24,040	24,545	3,115	25,040	71, 109	68,000	100 y 200	4, 327	16, 41	65. 1.	20, 91.3	075,11.	. 3, 289	. 100	18,938	94,842	85,899
	Construction materials, supplies,											1.0 1 3.1	,	11,000	nen' -	7	07107	060,040
	: -	13,615	11,041	15,680	13,703	41,041	7, 1		161/191	12.3		77	12,000	0,70	17, 36.	11,09	11,801	7, 309
	interne trate products	0,11	1 % 3/ /	15,481	508.	102.207	p + 1 01	14	1 3 3 4 B	¢	ī. J		7	71, 1, 1	69,857	65,019	193,2381	273,768
	SUPPLEMENTARY SERIES?																	
	Household durable goods indus- tries. Capital goods industries. Nondefense.	5,465 26,767 22,765 4,000	27, 224 22, 894 22, 894 4, 330	25,475	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	15, 883 74, 204 67, 274 11, 485	15, 19 76, 85, 65, 47 11, 960	75,864 64,794 16,535	5, 3/3 27, 108 - 3,024 4,0%	74, 473 74, 474 74, 474 7, 474	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3, 196 3, 362 3, 362 3, 362	24, 25 20, 897 3, 334	26,254 22,855 3,429	5,079 25,102 21,853 3,249	21,645 21,645 18,836	20,608 105,741 89,980 15,741	19,224 97,257 84,411 12,846
	INDUSTRY GROUPS AND INDUSTRIES						-					-				-		
32	Durable goods industries. Stone, clay, and glass products.	4,610	4,363	4,614	4,536	13,655	13,235 1	17,281	4,536	4,623	S: +	3,759	4,010	666.5	3,858	3,756	17,293	15,623
331	Class containers	11,934	11,7%	12,443	12,530	1,24.4 35,75.7 18,25.4	36,467	7,25 1,145 1	12,760	12, 244	12,588	11,003	12,133	13, 355	12,944	12,208	1,708	1,440
333-9	Nonferrous and other primary metals		4,794	5,142	5,175	15,111	14,712	15,135	5,009	5,144	5,168	8,846	5, 302	5,662	5,849	5,495	39,708	22,308
351	Machinery, except electrical. Engines and turbines. Farm machinery and equipment.	818 15,514 1,258 1,219	15,509 1,167 1,167	870 15,248 1,235	15,562 1,356 1,196	2,564 46,319 3,748 3,421	2,505	2,360	807 15,955 1,319 1,425	15,860 1,400 1,341	823 15,560 1,304 1,155	14,153 1,237 1,131	810 13,768 1,046 1,106	863 15,286 1,244 1,196	783 14,659 1,171 1,194	718 12,736 1,122 1,039	3,143 62,528 5,260 5,102	3,174 56,449 4,583
354 354 356	Construction, mining, and material-bandling equipment. Metalworking machinery	2,730	2,687	2,766	1,764	8,217 2,855 3,682	7,697	7,658	2,886 980 1,295	2,821	2,836	2,607	2,755	1,031	2,948	2,617	11,150 3,898 4,948	11,310 3,566 4,829
See	footr														-			

1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

							(Millions	(Millions of dollars)	8)									
				Seaso	Seasonally adjusted	pe						Not	seasonally	y adjusted1				
			Mon	Monthly			Quarterly					Monthly	y				Annual	
SIC	Industry				,		***			Last 4 mc	months		Last	4 months	a year ago			
		Apr. 1981P	1981r	1981	1981	1981	1980	1980	Apr. 1981P	Mar. 1981r	Feb.	Jan. 1981	Apr. 1980	Mar. 1980	Feb. 1980	Jan.	1981	1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
361,2	Electrical machinery	11,176	11,159	10,917	10,681	32,757	31,944	30,742	11,182	11,603	11,061	9,784	606'6	10,778	10,617	9,204	43,630	40,508
363	distribution equipment and industrial apparatus		1,856	1,706	1,650	5,212	5,447	5,142	1,797	1,947	1,825	1,572	1,717	2,004	1,883	1,609	7,141	7,213
365	Radio and TV		3,301	3,279	3,171	2,588	2,314	2,212 9,418	3,572	3,627	3,274	681 2,926	3,123	3,175	3,145	2,598	3,214	2,426
36/ 37	Electronic components Transportation equipment Motor vehicles and parts	17,376	1,912 16,937 9,891	1,924 15,534 9,347	1,835	5,671 47,813 28,299	5,615 48,387 29,222	5,518 44,575 26,243	18,247	1,963 18,533 11,135	1,955 15,935 9,675	13,895 13,895 8,568	1,862 14,959 8,724	1,911 16,368 9,938	1,826 16,274 10,224	1,608 13,853 8,832	7,590	7,207 61,454 37,718
372,6	Aircraft, missiles, and parts	4,907	5,134	4,295	687 67	13,918	13,962	12,942	4,938	5,417	4,428	3,798	4,312	4,286	3,999	3,219	18,581	15,816
3731	Larry	892	606	855	842	2,606	2,212	2,459	916	866	809	736	820	885	798	692	3,327	3,272
381-4 386	Instruments and related products	3,667 2,118 1,334	3,856 2,262 1,386	3,809 2,130 1,478	3,691 2,139 1,372	11,356 6,531 4,236	10,984 6,370 4,077	10,463 5,994 3,946	3,619 2,131 1,278	3,940 2,355 1,366	3,676 2,113 1,368	3,324 2,019 1,145	3,217 1,886 1,162	3,719 2,183 1,352	3,485	3,030 1,832 1,034	14,559 8,618 5,157	13,451 7,894 4,852
24 25 39	All other durable goods industries	8,374	8,072	8,366	8,099	24,537	23,842	21,936	8,530	8,369	8,023	6,791	7,134	7,699	7,709	6,832	31,713	29,374
20 201 208	Nondurable goods industries: Food and kindred products Meat products	21,901	21,905	22,003	22,278 5,479	66,186	66,318	65,186 15,499	21,826 5,347	22,517 5,299	22,271 5,362 2,279	20,963	19,035	20,942	20,391	18,903	87,577 21,367 9,692	79,271 18,901 9,129
207	Fats and oils.		1,881	1,724	1,862	5,467	5,433	5,070	1,805	1,911	1,826	1,835	1,506	1,754	1,745	1,599	7,377	6,604
21 22	Tobacco products		1,197	1,259	1,196	3,652	3,666	3,542	1,220	1,172	1,169	1,146	1,175	1,019	1,061	1,002	17,306	4,257
26	Paper and allied products		3,047	5,325	6,191	18,905	18,261	17,791	3,097	3,149	3,036	5,824	5,921	6,032	5,969	5,705	12,016	11,062
265	Paperboard containers		1,458	1,474	1,406	4,338	5,543	3,867	1,493	1,509	1,481	1,323	1,361	1,394	1,381	1,820	5,806	5,438
28	Chemicals and allied products industrial chemicals, ex-		15,431	15,020	15,286	45,737	43,871	39,699	15,621	16,539	15,352	14,146	13,991	14,766	13,837	12,918	61,658	55,512
283,4	Cept pigments Drugs, soap, and tolletries	5,185	5,595	5,348	5,227	15,170	15,050	13,200	5,563	6,088	5,578	3,815	5,022	5,370	3,608	4,658	22,185	20,060
30	Petroleum and coal products, Rubber and plastics products,	15,912	16,397	16,744	16,964	50,105	45,989	42,639	15,806	16,095	17,069	16,844	14,116	14,578	14,568	13,827	65,814	57,089
23	n.e.c.	3,649	3,472	3,506	3,664	10,642	11,180	11,088	3,834	3,699	3,557	3,330	3,695	3,879	3,930	3,677	14,420	15,181
31	All other nondurable goods industries	11,259	11,275	11,302	11,037	33,614	33,110	32,044	11,047	11,251	11,382	9,807	10,102	10,495	10,602	965'6	43,487	\$62,04
Ppre	Pprellminary. Revised.																	

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventorises are as of the end of the period and are adjusted for

Industry or characters of the separate industry categories as follows
The supplementary series are regroupings of the separate industry categories as follows
Flowaged definity series are regrouping to the separate industries and follows and miscellaHousehold duratries—Household furniture, kitchen articles and poltery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalric goods, vaiches, and clocks, and miscellaHouse present goods.

Capital goods industries—Acaparable to the previous producers' capital goods and the defense products (old series) categories.

Where the previous producers (acaparable and producers' capital capital fram analyment and mathem shapes), electrical mathems (acaparable and producers) and the mondedense portions of shipbuilding and repairing and railroad equipment, entering parts, and ordnance. Companies to shippuilding and repairing and repairing and repairing and repairing the defense ordnance, companies to ordnance, companies to ordnance, ord

Table 2 value of Wanter Tirens' NP ORDERS FOR INDUSTRY GROUPS, WARREL (AIRWHIS, AND SUPPLEMENTARY SERIES

4

(Millions of dollars)

							THE PERSON	o o o										
				Season	Seasonally adjusted	eq						Not	seasonall	seasonally adjusted ¹				
			Mont	Monthly		,	quarterly					Won-nlv	A.I				Ynn sal	
SIC	Industry									last 4 "c	onths.		Last	4 months	a vear ago			
		Apr. 1981 ^p	Nar. 1981 ^r	1981	1981	186*	1980	111	Apr.	Mar. 1981	Feb. 1981	lan. 1981	Apr	Mar. 1980	Feb 1980	Jan. 1981	1981	1980
	TOTALS																	
	All manufacturing industries	163,328	164,697	162,759	152, 39	489,540	478,98h	44.9.540	184, 78h	172.510	n 6 + **	107 201	145,4911	.59.1+0	156,942	14.,943	F55,963	608.524
	manufacturing industries excluding transportation	145,827	146,978	146.931	145,926	434,835	430,853 [401,522	149,148	13,434	144, 19	134, 388	128.473	142,004	14.,810	.24,982	588, 102	541, 769
	unfilled orders	86,311	87,602	85,366	84, 997	250,971	251.605	135, 495	8°, 8466	41,421	5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	· · ·	; ;	85,2671	84, 197	is 7	345,040	326,500
	Durable goods industries	83,917	84, 213	82,209	81,330	247,758	244.394	225,417	Kn, 184	89.73 -	3. 1.	i r	7	82, 642	82,237,	76, 232.	395, 13	315.555
	Durable goods with unfilled orders	8838	71, 114	960'64	58,246	208.456	204,426	189,647	21,032	75, 2 :7	70, 399	5.	52, 517	69, 390	58, 704	64,334	280,830	265.271
	Nondurable goods industries	79,411	80,484	80,550	80,75+	241, 788	234, 392	224, 129	80,122	82, >2	81,8121	7.	72, 438	76, 103	74,712	69,711	320,903	292,964
	orders	15,473	16,488	16.270	15, 761	7 ○ 00 7	7 04 7	tb. 3+8	11,414	10, 73	11, 085	, t. 8, 3, 4	20,.34	15,877	15,493	.4.826	n5,155	61,230
	orders,	62,938	63,996	54,280	66,993	193, 269	187,363	137,781	4 3, 46.H	55.00	65.117	51,173	27, 14	60.621	99.219	, 98 P.	255,748	231,734
	MARKET CATEGORIES	_													_			
	Home goods and apparel	12,077	12, 204	12,386.	11.821	35,411	34, 143	32, b75 83, 844	11,414	12. 55.1 28. 748	12, 334	1,157	15, 465	26,541	11,676	4,93	47,081	43.707
	Equipment and defense products, except automotive	24,362	26, 087	23,818	25.848	75,753	35, 379	31,503	24,668 13,432	27,192	23, 71,	24, 058	23, 29.1	11,498	22,266	12,236	44, 636	92,550
	Construction materials, supplies, and intermediate products	13,429	13,865	13,640	13,551	41,056	40,374	35,450	14,000	13,854	12, 742	11,397	11.952	12,251	12,374	10,836	52,013	47,413
	Other materials, supplies, and intermediate products	72,722	72,587	72,875	71,280	214,748	213,49	197,326	74,600	76.574	<i>(</i>	808 808	63,8hb	72,43	2, 5	58,339	24r, 362	279,323
	SUPPLEMENTARY SERIES ²																	
	Household durable goods indus- tries. Capital goods industries. Nonde fense.	5,659 27,532 22,772 4,850	5,661 28,626 23,791 4,835	5, 753 26, 24,7 20, 590 5, 65,7	5, 322 18, 706 24, 513 4, 193	16, 736 83, 579 58, 894 14, 685	14,919 78,326 64,140 14,185	14,347 77,178 61,839 15,339	5,652 27,466 22,975 4,491	5,947 29,716 24,991	5,739 26,598 21,347 5,251	4,533 27,171 21,701	4, 744 27, 086 22, 406 4, 580	2,230 28,081 23,574	5,270 25,753 22,413 3,340	4,434 25,823 22,277 3,546	21,871 110,951 92,014 18,437	19,684 106,743 90,670 15,073
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33 331 5	Durable goods industries: Stone, clay, and glass. Primary metals. Blast furnaces, steel mills.	4,555 12,129 6,610	4,412 12,070 6,170	4,641 12,412 6,170	4,471 10,977 5,208	13,524 35,459 17,548	13, 261 39, 673 21, 038	12, 131 34, 777 16, 620	4,702 12,855 6,453	4,575 13.824 7,242	4,261 13,514 7,099	3,806 11,247 5,669	3,912 10,299 4,340	4, 134 12, 869 6, 174	3,904	3,914	17,344 51,440 26,963	15,864 51,030 23,506
34 35 351	E H	4,501 10,015 15,953 1,401	4, 795 10, 507 15, 636 1, 218	5, 181 10, 124 15, 281 1, 187	4,674 9,705 16,545 1,710	14,650 30,336 47,462 4,115	15,358 30,519 44,728 3,589	15, 436 26, 046 41, 925 3, 298	4,788 10,312 16,620 1,355	5,427 10,768 17,070 1,449	5,361 9,891 15,933 1,245	4,551 8,929 15,245 1,444	4,951 9,131 12,261 992	5,495 9,977 15,308 1,238	5.154 9.986 14,945 1,090	6,227 8,330 14,153 1,169	20,127 39,000 64,868 5,493	22,827 37,424 56,667 4,489
354 356	Construction, maining, and material-handling equipment. Metalworking machinery	3,248 889 1,319	3,012 834 1,340	3,071 823 1,139	3,171	9, 254 2, 657 3, 860	8,420 2,568 3,633	7,745	3,550 940 1,389	3,205	3,158 879 1,247	3,056 831 1,269	2,446	3,036 1,231 1,351	3,108	2,977	12,969 3,634 5,286	11,567
See	See footnotes at end of table.																	

See footnotes at end of table.

Table 1. VALUE OF NANUFROUTHERS' NEW OLDERS FOR INDUSTRY GROUPS, WARRET CATEGOR'S. AND DISTRIBENTARY SERIES CONTINUE

(Milatons of dollars)

				Seasor	Seasonaily addusted	ed						Not	seasonill	Not seasonally adjusted 1				
			Mentaly	alv			Quarrenty					Monthly	41				Annusl	
SIC	Industry						-			, F		-	Last	lass 4 months a year ago	vear ago			
		Apr., 1981.	1981 ^r	1981	1481	1981	1980	198.	Apr.	Nar 1481	Feb.	1991	Apr. 1980	Mat. 1950	Feb 1986	. 36.7	1981	1283
	INDUSTRY GROUPS AND INDUSTRIES					and the state of		-										
	Durable goods industries				-				-									
36	Electrical machinery	11,495	11,624	31 542	11.420	34,280	33. 22.	304	11,570	11,945	1] 749	10.831	17, 8, 8	-	ç £	10,062	, 104	14 052
36.3	industrial apparatus	1,643	1,938	1,810	1,350	3,746	3,601	3, 439	1,781	2,026	1.999	1,852	156,	7 00	1.648	1,647	7,64.	7,408
365	Radio and TV		864	1.037	803	4,764	2,189	2.234	707	801	1	0000	1674	535	v3 † 00	200	3,243 1	379
365	Communication equipment		3,832	3.1.0	3,706	11,093	12,780	9, 10	3,779	3,927	1	3,597	3,010	1.632	3,527	3, 115	12,724	#60 x
337	"inspectation equipment		17,719	7 7	15, 164	49,711	6, 133	1 4	17,558	18,791	15 799	100	1.1.		16, 132	15,961	07,861	10. 10
372,0	Aircraft, missiles, and pasts	5,364	5,910	4, 361	1.407	15,738	12,907	1) (- -1	8-7"7	5,084	œ,	327	*11*	3, 315	7, 13	5,547	19,517	22 810
37.31	Shipbuilding and military tank vehicles	703	55.0	(+)	8,5	2,87.	3.041	, ,	7.1 T	966	1,389	560	1,107	402.	73.2	7441	3,883	3 852
20 .	instruments and related products	3,620	3,846	7	7	11,000	.1, 90	10 - 4	3,015	1,987	3, .02 }	3,3-3	3,175	3, 8, 8,	3, 53 1	3,251	14, 47	13,884
39	All other durable goods industries	8,629	8,399	3, 544	8, 291	25,234	33, 188	21 669	8,943	8,770	8,255	820.0	7.3.4	924	7, 750	692	32,496	29 885

"Revised. Ppreliminary.

*Shipwents and new orders are the totals for the period and are adjust. For treatments and calendar-even variations unfilled orders are as of the new of the new of the new of all set for treatments were are regrouplings of the separate industry categories as follow:

*The applements series ergovolings of the separate industry categories as follows:

*The applements series regrouplings of the separate industry categories as follows:

*The applements series are applements and for items. Fitchin articles and pottery; cutlety, handtools, and hardware, adding appliance, representations and series and or series. The applements are also and a series and series and series are also are also and series and series and series are also are also and series are also are al

Capital codes undatated—"operators producers, tapital youds and the detense provide "old series relations". And series construction construction and all the analysis of parts, and advantage operators of a physicisty of a substruction and abundance of a substruction and a substru

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							(Millions of dollars	of dollars)										
					Seasona	Seasonally adjusted							Not	seasonall	Not seasonally adjusted 1	1		
			Мол	Monthly			Ö	Quarterly						Month ly	1y			
SIC	Industry											Last 4 mo	months		Last	4 months	a year ago	
		Apr. 1981P	Mar. 1981 ^r	Feb. 1981	Jan. 1981	1980	11111980	11 1980	1 1980	1979	Apr.	Mar. 1981	Feb. 1981	Jan. 1981	Apr. 1980	Mar. 1980	Feb. 1980	Jan. 1980
	TOTALS																	
	All manufacturing industries	296,078	295,013	292,813	291,677	290,735	285,497	281,044	286,907	279,710	298,124	297,059	294,696	292,313 2	288,564	288,770	286,671	283,465
	excluding transportation	181,251	180,314	178,892	178,050	177,930	172,439	171,433	181,265	176,804	183,425	181,668	179,565	177,046	179,824	182,588	181,261	177,912
	Durable goods industries	285,194	284,108	281,953	280,825	279,746	274,622	270,383	274,884	267,879	286,878	286,089	283,746	281,600 2	276,660	276,676	274,931	271,821
	Nondurable goods industries	10,884	10,985	10,860	10,852	10,989	10,875;	10,661	12,023	11,831	11,246	10,970	10,950	10,713	11,904	12,094	11.740	11,644
	MARKET CATEGORIES																	
	Home goods and apparel and	0707	024 7	717 7	à	2000	000			000	000	6		1				
	Equipment and defense products,	74664	4,103	2 2 2	10011	\$0,00	071 6	147.4	4,717	4,630	67 6 6 7	4,090	4,242	3,847	4,633	4,564	657,4	4,295
	except automotive	169,673	109,405	167,829	166,872	164,410	161,670	159,412	159,073	154,999	169,954	169,902	168,794	168,157 1	160,583	159,429	158,597	158,416
	and intermediate products	19,832	20,036	19,814	19,859	20,009	19,883	20,423	20,771	20,910	19,978	20,059	19,876	19,863	20,751	20,804	20,603	20,391
	Intermediate products	101,631	100,833	100,756	100,862	102,382	99,824	96,962	102,346	171, 66	103,263	102,503	101,784	100,446	102,597	103,973	103,012	100,363
	SUPPLEMENTARY SERIES ²																	
	Household durable goods indus- tries. Capital goods industries.	4,017 198,848 134,640	3,823 197,981 134,633	3,522 196,582 133,738	3,144 196,194 135,087	2,971 193,616 133,017	3,233 192,126 134,355	3,387 188,821 135,810	3,680 185,519 136,118	3,475 179,310 131,819	4,010 4,010 198,991	3,682 198,635 134,896	3,345	2,891 197,462 135,385	3,658	3,535 186,009 136,312	3,431	3,240
	INDUSTRY GROUPS AND INDUSTRIES	64,208	63,348	62,844	61,107	665'09	177,72								51,018	769,64	48,619	48,523
32 33 331 6	Burable goods industries: Stone, clay, and glass. Primary metals Blast furnaces, steel mills.	2,393 29,601 18,745	2,447 29,406 18,382	2,540 29,105 18,053	2,514 29,185 18,100	2,578 30,738 19,097	2,553 27,731 16,756	2,702 25,139 14,358	3,066 29,528 17,349	2,917 29,962 18,007	2,504 30,966 19,683	2,488 30,871 19,320	2,536 29,946 18,649	2,499 29,020 17,828	3,019 29,129 16,893	3,116 30,963 18,234	2,981	2,935 30,199 17,646
34 35 351 353	Fa Ma	8,980 27,626 58,694 16,989	9,078 27,795 58,257 16,847	9,077 27,532 58,130 16,796	9,038 27,505 58,097 16,833	9,539 27,617 57,116 16,479	8,892 27,178 56,519 16,413	8,591 28,027 56,695 16,412	9,397 28,737 59,994 16,767	9,334 28,382 58,779 16,630	9,375 27,614 59,011 16,908	9,595 27,715 58,344 16,872	9,313 27,505 58,137 16,823	9,120 27,503 57,764 16,882	9,582 28,448 58,559 16,735	9,933 28,654 60,068	10,100 28,370 60,045 16,795	9,795 27,954 59,759 16,875
354	material-handling equipment. Metalworking machinery. General industrial machinery.	10,333 6,616 6,303	9,816 6,724 6,260	9,491 6,836 6,253	9,186 6,990 6,322	8,780 6,922 6,083	8,057 7,257 6,172	7,968	8,877	8,423	10,530 6,623 6.354	9,865	9,481 6,754 6.272	9,159 6,893	8,612	8,922	8,875	8,716
Rep	of the section of degree of the section of the sect																	4

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES -- CONTINUED

(Millions of dollars)

							MILLION	(MITTIONS OF GOTTERS)	(8.)									
					Seasons	Seasonally adjusted	Po						Not	seasonally	Not seasonally adjusted 1			
			Mon	Monthly				Quarterly						Month 1y	139			
SIC	Industry group		Mow	402	101	11/1	111	1.1	-	V		Last 4 months	onths		Las	Last 4 months a year	a year ago	
		1981p	1981 ^r	1981	1981	1980	1980	1980	1980	1979	Apr. 1981P	Mar. 1981 ^r	Feb. 1981	Jan. 1981	Apr. 1980	Mar. 1980	Feb. 1980	Jan. 1980
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery Electrical transmission and	41,861	41,538	41,074	40,452	39,710	38,534	38,830	37,944	35,631	41,846	41,450	41,108	40,423	38,802	37,863	37,179	36,119
	industrial apparatus						7,825	8,000	7,657	7,531	8,276	8,291	8,213	8,080	8,118	7,669	7,626	7,462
65	Radio and TV								395	342		944	967	317		360	453	320
991	Communication equipment								17,592	16,123		21,249	20,949	20,803		17,560	17,102	16,721
367	Electronic components	10,315	10,058	10,104	10,034	112,805	113,058	109,611	11,014	10,308		115,391	115,131	9,874	11,085	106,182	105,410	105,553
372,6	Aircraft, missiles, and	01 865	91.397	90.622	90.556	89.578	90,632	88,827	81.804	77.929	91.510	91,972	91,703	92.104	85,806	82.299	81.271	81.141
3731	Shipbuilding and military tank vehicles	14,112	14,300	14,282	14,046	14,032	13,203	11,205	11,237	11,297	14,299	14,386	14,286	14,005	11,646	11,299	10,975	11,040
98		6,381	6,429	077'9	6,412	6,341	6,232	6,295	6,459	5,985	6,410	6,415	6,369	6,343	6,399	6,441	6,333	6,188
39	All other durable goods industries	3,811	3,537	3,211	3,033	2,841	2,817	3,084	3,514	3,317	3,828	3,415	3,014	2,781	3,564	3,389	3,164	3,114

revised. Ppreliminary. -Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-

day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

The supplementary series are regroupings of the separate industries-Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries-Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries-Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries-Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries-Household furniture; kitchen articles and pottery; and hardware; household durable goods industries-Household furniture; kitchen articles and pottery; handtools, and hardware; household durable goods industries-Household furniture; kitchen articles and pottery; handtools, and hardware; household durable goods industries-Household furniture; kitchen articles and pottery; handtools, and hardware; household durable goods industries-Household furniture; kitchen articles and pottery; handtools, hand hardware; household durable goods industries-Household furniture; had not hardware had not have been also had not had not have been also had not

Capital goods industries—Comparable to the previous producers' capital goods and the defense products (old series) categories.

John Capital goods industries—Comparable to the previous productory and equipment and machine abope), a John Capital and ordering the productors of shiphulding and railroad equipment, occumunication equipment, aircraft and aircraft parts, and ordering and railroad equipment, communication equipment, aircraft and aircraft parts, and ordering and railroad equipment, and aircraft parts, and shipbullding and sparate reports on defense work filed by large defense contractors in the following industries: Ordenance, communication equipment, aircraft and aircraft parts, and shipbullding.

The data are constraints to those published annually in the Au-155. "Signerist feeders! Coverence special Connects Statement and arrangement and arrangement and arrangement and arrangement and arrangement and arrangement a

	į			Jun 149		133 541	3, 479	147	25	195	7	17,198		30,439	10 2,903	.9.181	92,575		9,088 69,906 53,457		5.723 548 24,390 11,337	15.271	37,428	8,506 2.378 3,653	
1			0 34 7 4 5 0	if		336, 15%	8 ° ° °	.03, 103	27	.4. 121		186.1.		7. TD	04,240	à	4		71,218 71,378 61,793 9 48		5 758 276 20 427 11,256	14,568	37.959	8. 533 2. 4/3 3, 727	
			E > [E 2]	1981		3 . 83 .	x	4.	-	6+1 1+9	7. 1. 0.	18. +18		8. 15. 30, 194	34.5	572	14,143		6,350 72,853 52,813	_	6, 134 585 20, 303 10, 917	20,003	1, 509 38, 193 2, 598 3, 248	8,449	
	It s.	*********	1	1404			- - - - :	, , , , , , , , , , , , , , , , , , ,	1, 333	960.54	4- 393	, 64 . 30 . 4 3 ±	-	18, 723	1,351	513	96, 484		9,543 74,454 Fu, 184		0 175 60,594 14,175	7,492	1, 782 39, 122 2, 773	3, 7, 508	
	* Seeks willy	W		E S		7	. 3	682 .11	16.4 453	751	, i a	134		3.,183	0, 8 0, 8		- 12 ×		79.54		21.325	8,448	38,749	3, 244	
	:			4 ;		, , , , , , , , , , , , , , , , , , ,	*	* 65 - 1		9.	· -T	5 7 67		20 T		2	44.		* * * : * : : :		7, 86 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A, 077	39, 283	3, 43	
			-	1,0		52, 167	7, 7	95.	267,441			16, 178		18,615	26.4	ž	1,316				15.0	. 4,845	1, 10 1070 3, 100	7,54n 2,378 3,744	
				-		200	6				112,10	13,5 1		19,177	111	was 10.	101,00		* E. 7 . 3		- (d	1 2 7 2 7	1 7 7 7	19.4.6	
						11811	7	£		4 133	7	ř,		12	7	3	\$ 1.8.11		- - - - - - - - - - -		3,13,5	20,77	3 18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
				;		128 141		1			115.51	1 4 1	1	1 = 1 2 = 1 2 = m	- i -		f				1 2 3 1	1,848	37 629	A, 3.38	
		1 1 1 1 1		7		, en	; ;	<u>=</u>		144. "	* · · · · · · · · · · · · · · · · · · ·	3.832		43	· · · · · · · · · · · · · · · · · · ·	?	~				: 12	7,7,2	3-, 440	200	
-	-		-	i,			214.11.		*	711		1			· · ·		5. 25		αυ → → ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	7, H. 7	39, 10.7	3.718	
	1					. 44 . 13	7	F. T. F. T.	1 2 4 . 4 . 4	. 51.325	Y Y	19.5.61		31,194	5 m	£	***		2 % 1 % 6 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1		2., 263	1,23	38,352	8,200 2,476 3,0 %	
	St. v. v. 45		1 3	4		F . 745	- 22	125 16	256 797	11111	7	19,112	ì	3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	3.5	20,13	2 7	-	80, 134		12.53 11.53 11.53	8,440	1, 526 38, 637 2, 534 2, 805	7 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
	100 00 00 00 00 00 00 00 00 00 00 00 00		1 1 1 1	1,48		131	7 1 1 1 7	, x , z ,	Jan. 17	1 3, 10;	7.7.	19, 1.4		18,414	72,612	20,270	ē. 1		56.50		21.43 21.434 11.434	8,565	38,865		
1			1	711.		05+4+90	2014, 595	17.,645	166,33	156, 154	47914	3 4, 345		19,633	71,609	20,427	101,143		4,1.c 8r,8.5 13,010		6,355 598 11,519	19,315	1,359	8, 353	
			307	1941		:08,25	217,74	177,150	167,884	157,439	86,919	11, 11		18,872	72,611	:0,33.	101,98.	_	9,517 81,770 68,595 13,265		6,337 580 21,667 11,389	8,853 19,1991	39,271,	1,468	
			Industry		TOTALS	ill samufacturing industries	Whoding transportation	Manufacturing industries with untilled orders	Durable goods industries	Orders	Nondurable goods industries	orders	MARKET CATEGORIES	Home goods and apparel	[quipment and defense products, except automotive	Construction materials, supplies, and intermediate products	Other materials supplies, and intermediate products	SUPPLEMENTARY SERILS	Household durable goods intus- tries (apital goods industries Nindefense.	INDUSTRY GROUPS AND INDUSTRIES	S 2	Nonferrous and other pri	Arthurs, systems, and Arthurs, and Machinery, except electrical prigities and turbines.	Vonstruction, wining, and material-wanting equipment Werelworking machinery.	footnotes at end o' table.
			17																		32 33 33 331	333-6,	351 351 352	353	See

THALE 4. VALUT OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKE, CATEGOREES, AND SUPPLEMENTARY STRIES-CONTERNED

				Ceasona	Seasonally adjusted	73						hot	seasonally	y adjusted			
		-										-					
		Monthly	()			70	Quarterly						Montally	ly .			
Industry									:		Last 4 mo	months		I ast	4 nonths	a year ago	
	4pr.p	Mar. 1981	1481	Jan. 1981	1,480	1980	1-46	1980	1,979	Arr,	Mar. 1982f	Feb. 1481	Jan. 1981	Apr.	Nas .	1980 1980	Jar. 1985
INDUSTRY CROUPS AND INDUSTRIES																	
Durably goods industries																	
Electrical machinesy	. 23,338	22 A33	22. 844	5 % 6:	22,135	22,095	21,861	21,620	986.0	23.615	.2.937	0.		*	7.	5	29,716
distribution eculpment and industrial apparatus		3,987	3,988	5,903	3 904	3,955	3,982	3.868	3 770	4 175	600.2	, *P1	7,418	4 017	968 (3 012	4 K13
Household appliances		1,483	1,161	1 139	1,774	1,893	1 084	1,053	1.03+	2,342	2,00.3	1,123 !	1.084	1,097	1,019	720	1.6
Communication equipment		8,687	8 761	150.8	8,457	3 384	7,992	3 240	1 000	8.6-0 1.6-0	8,745	3 50. 1	2 572		1.794	100	Ç ::
Flectronic components		36,855	50.00	36,375	0.00	33 950	3, 588	1	100	37,055	37,155	100F as	36 275		11 769	31 C	55 00
rehicles and parts	7,256	7,354	24,514	7,338	15,702	7,401	287.02		17,41	7,219	24,451	7.	100 /	T 07	192	13, 4	r.,
Shipbuilding and mai . iry		2,867	2 855	044.5	2,577	2,383	2,386	130	. 155	2.847	2,889	95.1	*	134	146	1 7 7 7	. 90
Instruments and related		8.807	3,4	84., 1	8, 1, 8	3.430	8,393	8,23	3	8,865	8.6.0	R 551	07.0	9. 339	r r,	и. 130	
Scientific and engineering	2,043	6,162	1, 944	6.244	1,965	1.96.	2.983	100	1.1.1	2,084	6,205	6.15.7 : 982	1,989	2 33	2,536	15	1 =
All other durable goods industries	12,436	12,308	137	14. 4.	12,166	12,279	1	12.78	11.48	12,59~ (13,5.0	0 1	1.,2%	4,0	12 4	,	
Yondurable goods industries Food and kindred products	20,898	21.238	Turing the state of the state o	21,05	21.362	21,337	20 . 72	70.43	.6. 197		30 985	1 300	1.830	10,000	0.1	20.67	24,711
Meat products	3.810	3,800	3,782	3 831	. 8bt	3,738	3, 30.4	3 830	3 845	-	3,979	+38	2 400	878 -	3 414	3.38	1 206
Fats and oils.	1,631	1 737	1.844	1.980	2,035	2,321	1,754	1,62	1,413	10,707	1,944	11.384	2,105	10.690	1 8.1	2.0 c.	11 -52
Tobacco products	1,0,1	3,708	3,627	1,739	3,524	3,729	3,529	3.506	1 303		3,863	3 8 42	3,98	3,544	5,053	0 0	3, 71
Textile mill products	6,407	6,342	7,334	2,256	2,18	5,876	7 598	7 245	2 344		7,894	00%	0 00	0,250	1 5		5, 456
Pulp, paper etc	2,836	2,338	839	275	2,656	2,755	2.656	7	2 310		2,847	8	133	. 564	j j		25.0
Paperboard containers	2,140	2,120	2.068	200.2	255.1	1,903	2 030	1 480	7 7		2,000,2		705	1 + 4 +			2,438
the sicals and allied products	19,796	17,487	19,175	15,510	18,310	18.489	19,330	1 6	16 4.2.		15,688	1956	10 100	1	a.	18,70	60
Industrial chemicals, except	6,410	6,277		0. 10	5.403	5.887	0 455	5,017	1, uh	4,311	6,202	,,,		, , ,	×+ .	,	
soap, and tolletries	. 6,017	5,907	+0x 0	30.00	3,0,0	3,894		E : X	Z ?	6,047	5,866	7 4	- a	1 6 7 7	7. 2		250
Rubber and plastics products	101101	071									200	,	- ;	17	~	Ç	1
n.e.c	4,805	609'5	4,650	7. 7	7 7 7	7	į,	200.2	j	0 7	00011	7			-		
ill other nondurable goods industriles	13,256	13,040	12,903	12.859	12.549	12,601	12,852	12,373	11.54	13,400	12,423	9+Q	12 211	ř.	, , ,		11.4
							1	-	-			-	1		7		

Ppreliminary.

*Revised.

Shipments and new orders are the totals for the period and attributes the training-day of definitions of the control of the control of the separate industry categories as follows:
The supplementar metrics are repropulse for the separate industry categories as follows:
The supplementar metrics are repropulse for the separate industry categories and pricedly under the control of t

Table 5. VALUE OF MANUFACTURERS' INVENTORIES, BY START OF FABRICATION, BY INDUSTRY SROUP

			Jan.	233,547	154,097	20,390	37,428 20,726	30,388	12,150	18,227	49,197	81,023	2,266	6,790	5,960	2,658	31,311 6,375 1,701 1,852	21,383	79,843	67,808	6,897	17,405	18,524	12,035	2,646	6,408	72,681	36,577	5,584	9,235	3,732	36,104	9,206 3,265 2,227	002(17
		a year ago	Feb. 1980	236,758	156,470	20,427	37,959	8,130	12,247	18,776	771	81,551	2,270	6,832	6,068	2,594	31,627 6,571 1,817 1,766	21,473	81,194	68,958	6,888	17,499	3,647	12,236	2,729	6,546	74,013	37,588	5,689	9,471	1,889	36,425	3,222	065147
		it 4 months	Mar. 1980	239,837	158,721 6,134	20,303	38,193	31,709	81,116	18,855	000	82,495	2,293	6,916	6,190	2,584	32,271 6,954 1,866 1,814	21,637	82,969	70,427	6,955	17,665	3,723	12,542	2,725	099'9	74,373	38,069	5,592	9,464	3,813	36,304	3,487	64142
N admerad	hly	Las	Apr. 1980	243,705	161,306	20,590	39,122	52,221	12,386	19,243		83,036	2,302	6,918	6,302	2,549	32,433 7,124 1,947 1,914	21,448	84,138	71,398	7,150	17,930	3,803	12,740	2,680	6,791	76,531	39,305	5,702	9,934	2,037	37,226	3,668	20011
seasonal	Mont		Jan. 1981	249,554	164,833	21,325	38,749	8,485	84,721	19,194	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	84,180	2,488	6,437	6,200	4,947	33,328 7,172 2,060 1,769	22,327	89,071	75,943	7,436	17,883	3,772	13,128	2,687	6,792	76,303	38,038	5,233	10,044	2,126	38,265	3,872	100
No		months	Feb. 1981							19,556		84,550	2,546	6,709	6,220	5,465	33,413 7,302 2,152 1,763	22,196	90,423	77,042	7,540	18,022	3,925	13,381	2,736	6,883	77,870	39,247	5,462	10,476.	2,171	38,623	3,964	
		Last 4	War. 1981r							9,688		84,702	2,527	6,615	6,170	2,482	33,723 7,343 2,247 1,802	22,331	91,078	77,642	7,691	17,970	3,956	13,436	2,718	066'9	78,887	39,816	5,608	10,710	2,202	39,071	9,491 4,645 2,129	200
			Apr. 1981P					-		19,768		8+,82+	2,549	6,445	4,154	2,501	33,914 7,360 2,238 1,823	22,493	91,701	78,189	7,826	17,906	23,936	13,512	2,857	6,992	79,384	40,241	5,756	10,775	2,305	39,143	9,645 4,616 2,156	24
		A.I	1979							16,982 6,581 4,777 4,8,229		79,114	2,227	6,807	8,351	7,503	30,257 6,069 1,709 1,729	20,750	78,611	66,837	7,013	16,952	3,445	11,774	2,048	6,446	70,532	35,994	5,379	8,940	1,917	34,538	2,824	
		þ=	1980							18,677 8,062 4,954 49,702		82,314	2,277	6, 435	6,222	5,019	31,967 6,943 1,839 1,847	21,338	82,272	69,585	6,936	17,451	3,678	12,687	2,367	6,744	73,936	37,195	5,532	9,195	3,791	36,741	3,856	
OI GO! SI	Quarterly	1.1	1980							8,763 4,817 50,316		82,515	2,336	6,620	6,171	4,920	32,338 6,843 1,942 1,825	21,728	84,502	71,891	7,398	17,716	3,851	12,611	2,445	60,709	76,613	38,336	5,292	10,110	3,898	38,277	2,217	
ted		111	1980							16,489		80,925	2,271 8,990	6,187	6,166	5,050	31,918 6,702 2,156 1,571	21,489	85,934	73,209	6,919	17,706	3,792	12,725	2,616	6,684	76,756	38,475	5,178	10,403	2,023	38,281	2,107 2,107 2,107	
sally adjus		1.V	1980							16,396		81,876	2,456	10,846	6,051	777,7	32,369 7,078 1,971 1,745	21,575	87,033	74,060	6,949	17,409	3,879	12,973	2,734	6,860	75,584	38,340	5,290	4,721	2,137	37,244	3,691	
Seasor		Ten	1981	248,408	164,938 6,128	21,023	38,637	8,496	83,470	18,610 8,585 4,498 51,577		83,654	2,467	6,449	8,682	4,932	32,866 7,078 2,045 1,778	21,965	89,377	76,207	7,359	17,741	3,759	13,170	2,848	6,812	75,377	37,943	5,123	4,796	2,134	37,434	3,692	
	1y	T O	1981	251,231						19,175 9,206 4,650 51,922		84,695	51,486 2,537 8,610	6,845	6,288	7,994	33,207 7,292 2,172 1,822	21,921	716,98	76,487	7,924	17,813	3,911	13,430	2,952	6,901	76,619	38,303	5,314	10,243	2,144	38,316	1,978	
	Monthly	1 0)	1981r	253,450	166,830	21,648	38,909	8,607	86,620	19,487		84,538	2,508	6,541	6,205	2,508	33,387 7,325 2,213 1,835	22,014	90,341	76,753	7,667	17,780	3,907	13,588	2,801	7,073	78,571	38,926	5,546	10,421	2,192	39,645	5,132	
		400	1981P	254,803	167,884	21,627	39,271	8,769	86,919	19,796		85,205	51,418	6,476	6,379	5,027	33,787 7,393 2,219 1,855	22,320	90,888	77,340	7,809	12,082	23,648	13,548	2,856	7,029	78,710	39,126	5,648	4,877	2,254	39,584	2,030	
		Industry		TOTALS All manufacturing industries	Durable goods industriesstone, clay, and glass products	Primary metals	Nonelectrical machinery	Insuspondent of a continuous and related products	Nondurable goods industries	Chemicals and alited products Petroleum and coal products Rubber and plastics products All other nondurable goods industries	MATERIALS AND SUPPLIES	All manufacturing industries	Durable goods industries	Fabricated metals	Electrical machinery. Transportation equipment.	All other durable goods industries	Nondurable goods Industries Chanculs and allied products. Petroleum and coal products. Rubber and plastics products, n.o.c.	All other nondurable goods industries	All manufacturing industries	Durable goods industries	Primary metals Fabricated metals.	Riectrical machinery	Instruments and related products	Nondurable goods industries	Petroleum and coal productsRubber and plastics products, n.e.c	All other nondurable goods industries FINISHED GOODS	All manufacturing industries	Durable goods industries	Fight of the state	Electrical machinery.	Instruments and related products.	Nondurable goods industries	Petroleum and coal productsRubber and plastics products, n.e.c	Ppreliminary. FRevised.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

		(Dase)	on season	arry adjust.	ou data)					
			Pe	rcent chang	es				Revisions ²	
	Mo	onth-to-mont	h	Avera	ge monthly	rates of ch	ange ¹		Average	monthly
Item and industry group	Mar Apr. 1981	Feb Mar. 1981	Jan Feb. 1981	First quarter 1981	Fourth quarter 1980	Third quarter 1980	May 1980 through Apr. 1981	Year ago Apr. 1980	Apr. 1980 through Mar. 1981	Apr. 1976-1980
Shipments:										
All manufacturing industries	-0.1	+0.5	+0.3	+0.7	+1.4	+2.6	+1.0	0.3	0.3	0.1
Durable goods industries	+1.0	+1.2	+1.0	+0.8	+1.5	+3.5	+1.2	0.1	0.3	1.2
Nondurable goods industries	-1.2	-0.1	-0.4	+0.5	+1.3	+1.7	+0.9	0.6	0.5	0.3
Inventories: All manufacturing industries	+0.5	+0.9	+1.1	+1.2	+0.1	-	+0.4	-	0.2	0.2
New orders:							+1.1	0.0		
All manufacturing industries	-0.8	+1.2	+0.4	+0.5	+1.5	+3.9		0.3	0.4	0.2
Durable goods industries	-0.4	+2.4	+1.1	+0.6	+1.5	+5.9	+1.2	0.0	0.6	0.2
Nondurable goods industries	-1.3	-0.1	-0.3	+0.4	+1.4	+1.9	+0.9	0.6	0.5	0.2
Unfilled orders:				0.5		.0.5	.0.2	0.0		
Durable goods industries	+0.4	+0.8	+0.4	0.5	+0.6	+0.5	+0.3	0.3	0.1	-

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entoriess	hipments ra	tio	Unfil		-shipments : backlog)	ratio ¹
	Apr. 1981	Mar. 1981	Feb. 1981	Jan. 1981	Apr. 1981	Mar. 1981	Feb. 1981	Jan. 1981
All manufacturing industries	1.57	1.56	1.55	1.54	3.47	3.45	3.48	3.51
Durable goods industries. Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products.	2.03 1.37 1.81 1.89 2.53 2.09 2.12 2.39	2.03 1.41 1.84 1.89 2.51 2.05 2.18 2.23	2.05 1.36 1.72 1.93 2.55 2.09 2.36 2.25	2.06 1.35 1.68 1.99 2.48 2.11 2.37 2.30	4.15 0.58 2.48 2.95 4.11 3.75 12.14 1.74	4.12 0.60 2.50 2.96 4.05 3.72 11.79		4.18 0.61 2.33 3.07 4.04 3.79 13.31
Nondurable goods industries. Food and kindred products. Tobacco products. Textile mill products. Paper and milied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.	1.09 0.95 2.92 1.44 1.25 1.35 0.64 1.32	1.08 0.97 3.10 1.45 1.25 1.26 0.62 1.35	1.05 0.96 2.88 1.45 1.25 1.28 0.55 1.33	1.03 0.94 3.13 1.46 1.24 1.23 0.51 1.23	0.66 (X) (X) (NA) (NA) (X) (X)	0.66 (x) (x) (NA) (NA) (X) (X)	0.67 (X) (X) (NA) (NA) (X) (X) (X)	(X) (X) (X) (NA) (NA) (X) (X) (X)

⁽NA) Not available. Preliminary. r_{Revised.} (X) Not applicable.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.
²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

⁻ Represents zero.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based or a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for un filled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Shipments, Inventories, and Orders

MAY 1981

M3-1(81)-5 For Wire Transmission 2:30 P.M. E.D.T. Tuesday, June 30, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in May increased \$1.0 billion or 0.6 percent from April to \$164.9 billion the Department of Commerce, Bureau of the Census reported today. An increase in new orders for nondurable goods of \$1.1 billion or 1.4 percent to \$80.8 billion was partially offset by a decline in orders for durable goods of \$0.2 billion or 0.2 percent to \$84.1 billion. In the nondurable goods industries where generally new orders equals shipments for the month, the petroleum industry accounted for over three-fourths of the \$1.1 billion May increase.

In the durable goods industries the pattern of new orders in May was mixed. New orders for steel fell \$1.3 billion or 18.9 percent to \$5.4 billion, following a 7.8 percent increase in April. The largest increase in May orders came from the aircraft industry where an increase of \$1.2 billion or 21 percent to \$6.6 billion was reported.

New orders for machinery in May increased \$0.3 billion or 1.2 percent to \$27.5 billion, as an increase in the electrical category of \$0.6 billion or 5.3 percent to \$12.1 billion was partially offset by a decline in the nonelectrical category of \$0.3 billion or 1.7 percent to \$15.4 billion. Since January when machinery orders increased 9.0 percent, new orders have been relatively flat, with a decline in February of 4.1 percent, an increase in March of 1.6 percent, and a decline in April of 0.3 percent.

New orders for nondefense capital goods in May were up \$0.3 billion or 1.3 percent to \$23.7 billion. Increases in commercial aircraft and electrical machinery orders offset declines in the other nondefense categories. New orders for defense capital goods increased \$1.1 billion or 23 percent to \$5.9 billion.

Shipments of manufactured goods in May increased \$1.1 billion or 0.7 percent from April to \$163.4 billion. The largest increases were in the electrical machinery category, up \$0.5 billion or 4.9 percent to \$11.7 billion, and instruments and related products, up \$0.2 billion or 5.2 percent to \$3.9 billion. Most of the other industries showed little change or had small declines from April.

Shipments by the nondurable goods industries in May increased \$0.8 billion or 1.0 percent to \$80.4 billion. The petroleum industry dominated the picture with an increase of \$0.9 billion or 5.6 percent to \$16.7 billion. This increase followed declines in April of 3.5 percent, in March of 2.1 percent, and in February of 1.3 percent. The value of petroleum shipments in January was \$17.0 billion. Excluding the petroleum industry, shipments of nondurable goods in May showed little change from April.

The backlog of manufacturers' orders in May was \$298.2 billion, up \$1.5 billion or 0.5 percent from April. The backlog of orders for defense capital goods increased by \$1.8 billion or 2.8 percent to \$65.9 billion. Since October 1, the beginning of the government fiscal year, the backlog of orders for defense equipment has increased \$8.1 billion or 14 percent. The September 30 level was \$57.8 billion. Without the defense capital goods industries the backlog for manufacturers' orders showed little change from April.

The book value of manufacturers' inventories in May was \$256.4 billion, up \$1.4 billion or 0.6 percent from April. Although the value of inventories has increased an average of less than 1.0 percent a month since December, the relatively small increases in shipments have caused the inventory to shipments ratio to edge up from the December rate of 1.53 to 1.57 in May. Finished goods and work-in-process inventories have each increased an average of 1.1 percent per month since December while raw material inventories have increased 0.7 percent per month.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for June is scheduled for release on July 22, 1981, and the full report is scheduled for release on July 31, 1981, 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

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			1 1	1861									_							50				_	
			Industry		TOTALS	All manufacturing industries	excluding transportation	anfilled orders	Durable goods industriles	Orders.	Nondurable goods industries	orders	NARRFT CATEGORIES	Home goods and apparel	Equipment and defense products except automotive	Construction materials, suppli- and intermediate products	Other vaterials, supplies, and intermediate products	SUPPLEMENTARY SERIES?	Household durable goods indus- tries tools industries Nondefense.	INDUSTRY GROUPS AND INDUSTRIES	Durable goods industries. Stone, clay, and glass products	Blast furnaces, steel mills	Fabricated metal products	Machinery, except electrical Engines and turbines	Construction, mining, and material-handling equipment. Netalworking matchinery
			SIC																		322	331-9	34	351 351	354

See footnotes at end of table.

(Millions of dollars)

							(Millions	or dollars										1
				Season	Seasonally adjusted	pe						Not	Not seasonally adjusted 1	$adjusted^1$				
			Monthly	aly		· ·	Quarterly					Monthly					lear to da	date
SIC	Industry						;			Last 4 mo	months		Last	4 months a	year ago			
		1981P	Apr.	1981	1981	1981	1980	1980	May 1981	4pr.	Nar. 1981	Feb. 1	May 1980	Apr. 1980	Mar. 1980	Feb. 1980	1981	1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
36		11,711	11,163	11,159	10,917	32,757	31,944	30,742	11,448	11,172	11,603	11,061	4,038	4,409	10,778	10,617	5,008	50,345
363	distribution equipment and industrial apparatus	1,842	1,792	1,856	1,706	5,212	5,447	5,142	1,868	1,822	1,947	1,825	1,655	1,717	2,004	1,883	7,034 7,045	8,869
305	Radio and TV	3,841	3,412	3,351	3,279	7,388	9,435	2,418	3,813	3,545	3,627	3,274	3,193	3,123	_	3,145	17,185	15,234
367	Electronic components Transportation equipment Motor vehicles and parts	1,936	17,471	1,912 16,937 9,891	15,534	28,299	29,222	26,243	16,482	18,353	18,533	15,935 1	3,922 1	4, 454		5,24	4,210 85,1198 52,237	75,376
372,6	Aircraft, missiles, and	4,943	4,954	5,134	4,295	13,918	13,962	12,942	4	+, 987	5,417	4,428	4,333	4,31.	4,280	3,999	23,626	20,149
3731	Shipbuilding and military tank vehicles	936	87,	606	855	2,606	2,212	2,459	7	*	20 5 5	809	2+5	8.20	00 00 00 00	7.5%	- + + + + + + + + + + + + + + + + + + +	4,114
381-4	Instruments and related products	3,864	3,674	3,856	3,809	11,356	10,984	10,463	3,846	3,525	2,355	3,676	3,318	3,217 1,885 1,162	3,719	3,485	18,411	16,789
26 25 39	All other durable goods Industries	8,384	8,401	8,072	8,366	24,537	23,842	21,936	8,572	6,552	3334	8,023	b,854	7,134	659.2	7,7.4	40,307	36,228
201	Mondurable goods industries. Food and kindred products	21,770	22,234	21,905	22,003	06,186 16,243	16,429	65,186 15,499	21,085	5,331	5,299	5,362	4,635	4,449	4,777	20,3+1	26,907	23,284
208	Beverages	2,640	2,678	2,478	2,580	7,640	5,433	8,190	1,732	2,725	2,525	2,279	2,700	2,519	2,448	2,248	12,390	12,029 8,104
203-6,9		1,200	9,086	1,197	1,259	3,652	3,060	3,542	1,217	1,217	1,172	1,109	1,1+5	1,175	1,113	1,061	5,921	5,402
22 26	Textile mill products	6,166	4,442	4,370	4,383	13,025	12,082	11,924	6,620	4,451	4,652	4,317	5,742	5,421	4,441	2, 4, 2	21,935	25,369
261-3 265		2,955	2,963	3,047	3,024	8,403	8,632	3,867	1,468	2,040	3,144	1,481	2,745	1,301	2,833	2,313	7,257	13,307
264	All other paper products	1,764	1,841	1,884	15,020	5,5134	5,543	39,099	1,754	1,841	1,917	1,931	3,150	1,732	1,844	1,775	77,178	5,004
283,4	copt pigments Drugs, soap, and tolleries Petroleum and coal products	5,210 3,687 16,695	5,295 3,554 15,815	5,545	5,348	11,780	15,050	13,200	5,434 3,425 16,391	5,681 3,522 15,759	6,088 4,067 16,095	5,578	4,509	5,022	3,843	5,010 3,6 0 4,040	77, 737 16,816 82,108	24,569 17,685 71,574
30	Rubber and plastics products,	3,555	3,623	3,472	3,506	10,642	11,180	11,088	3,657	3,808	3,643	3,557	3, -04	3,945	3,750	5,1430	18,4:1	10,565
33 33	All other nondurable goods Industries	11,500	11,282	11,275	11,302	33,514	33,110	32,044	11,002	11,074	11,251	13,382	4,884	10,10	9.7.9	To, sort	ST 12	87.45.35
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The applementary sites are regonate industry categories as follows
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Copital goods infastries—Comparable to the previous producers' capital goods and the defense products (old series) categories.

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		a year as,	Mar.	~	1 4,140	142,30%; 1	1.1.1.8.	, , g , , ,	69, 540)	76, 303	1.,877	40 o 04
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	Monthly	V seem	1941		14.4, 601	145,720	346,738	34, 31	E	. 44.64	Degrees?	64,218
		des	Takl.		110, 114	lai, thi	NE, 499	84,119	90000	N., 74	It, my	fee, 334
		SIC Industry		TOTALS	All manufacturing industries	excluding transportation	untilled orders	Durable goods industries,	Orders.	Nondurable goods industries	Orders.	orders

1 VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--CONTINUED

(Millions of dollars)

1		1	1		1		26	06	76	4 00	14	96	14	28	5.6	95
		Year-to-date		1980			53,697	9,4	5,476	17.0	6 6	80,4	27,914	4,558	17,129	36,595
		Year-t		1981			57,768	9,715	6,145	14.041	10.022	87,433	24,984	5,535	18,312	41,491
			0	Feb. 1980			11,680	2,048	1,176	3,527	2,194	16,132	4,130	732	3,630	7,700
	ed1		a year ago	Mar. 1980			11,461	2,047	1,185	3,632	2,177	17,141	5,315	1,209	3,828	7,924
	lly adjust		Last 4 months	Apr. 1980			10,848	2,166	1,000	3,610	1,955	17,517	7,818	1,167	3,175	7,309
	Not seasonally adjusted 1	hly	Last	May 1980			9,646	1,582	1,025	3,144	1,722	13,745	5,104	706	3,245	6,710
	No	Monthly		Feb. 1981			11,749	1,959	1,287	3,421	2,104	15,799	4,028	1,089	3,702	8,255
			months	Mar. 1981			11,945	2,026	1,267	3,927	1,978	18,791	5,684	996	3,987	8,770
			Last +	Apr.			11,596	1,851	1,252	3,735	2,201	18,391	4,519	1,579	3,537	8,945
				May 1981P			11,647	1,997	1,223	3,961	2,019	18,789	5,426	902	3,743	8,593
-			III	1980			30,444	696'7	3,439	9,712	4,950	48,024	14,748	4,457	10,401	21,669
		Quarterly	IV	1980			33,122	5,506	3,601	10,780	5,564	48,133	12,907	3,041	11,090	23,868
	pa		н	1981			34,586	5,608	3,746	11,093	5,555	49,711	15,738	2,876	11,446	25,234
	Seasonally adjusted		Feb.	1981			11,542	1,810	1,281	3,495	1,994	15,828	4,361	1,091	3,837	8,544
	Season	1,19	Mar.	1981			11,624	1,938	1,206	3,832	1,866	17,719	5,910	929	3,846	8,399
		Monthly	Apr.	1981r			11,515	1,712	1,249	3,688	2,126	18,325	5,404	1,456	3,543	8,656
			May	1981 ^p			12,122	2,048	1,206	4,197	1,977	19,269	095*9	1,096	3,802	8,271
			Industry		INDUSTRY GROUPS AND INDUSTRIES	Durable goods industries	Electrical machinery Electrical transmission and distribution equipment and	industrial apparatus	Radio and TV.	Communication equipment	Electronic components	Transportation equipment	parts	tank vehicles	Instruments and related products	All other durable goods
			SIC				361,2		363	366	367	372,6	1111	3795	200	39 52

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or expectations.

The supplementary series are regretorings of the separate industry categories as follows:

Household durable goods industries—Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries—Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries—Household furniture.

menous preparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense poodsts-"daminery, accept electrical (excluding farm seathline about), electrical machinery of explosinery and electronic components, and before products-"daminery and repairing and relations of apparations of shipbuilding and repairing and relations outpaired, communication equipment, aircreft and aircreft; and orderine profuse of shipbuilding and repairing and relations or produces profuse of shipbuilding and repairing and relations of shipbuilding industrial or processing of shippuilding and relations of the description of the profuse of shippuilding, shippuilding industrial or processing of the profuse of the specified insistirs of the profuse of the specified insistirs and aircreft and aircreft parts.

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11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.4817			1071	1.4811	1.4811	1 1871	1 4811	1991								To the same of the	A Treatment of the Contract of		E 207 7	.551 185,55.	187,489	11,264			1	170,439	14,48.	103.383			144,666	135,584	-		2 4.73	31,00%	19,699	9.419	27,642	58,923	16,880	10,457 10,461 9,865
	_			-	-												,			•											36	174,31	131,819		-								8,877 8,423
_		Ξξ.	I 5	Ξ.			111			٤.							1	1		. S. L. J. J. J. J. J. J. J. J. J. J. J. J. J.	* 5 7 4 4 7 1	;	100			0.1.	201,070	19,883	7.7 × 6.			197,124	134,355		_	2.553	27,73	10,736	8,892	27,178	56,517	(1+10)	8,780 8,057 7,958
+ 1 <u>5</u>	1.61				1 65 1	1451	145										1	+		195, 14 . 14,815	S. 11. 1 x x 2 1 1 1	8.,1 08 281,403	10,965 10,860 11			6,739 w.ele 5	169,415 107,829; Ina.	20,036 19,810 , 20	10k, 833 10k, 75k 1 102		 	140, 80	134, 633 135,738 133 63,548 22,844 60			2.540	29,400 29,105 30	18,003	9,077	27,795 27,532 27	58,130	10,77	9,816 9,491 8
		1981	4rr Mar.	Are	7.00	47.1	111	T I WE	1981	1981	1981	1 101	-	1061	1061		-	-		,248 246,711 245	181,156	285,80,	10,469			1/5.4	170,157	19,837	101,746		2	199,516	135,378			2.367	29,643	18,761	9,022	27,653	58,606	16,960	10,266
	Inhystry	Val. Val. P. 1 981 P.	Man 1 981 P	-			VIII)	G 185 I	1981	11861	1861	1,4001	1 100.1	1 405 1	1 405 1				TOIMS	248	excluding transportation 181,000	Durable goods industries 286, 36-	Nondurable goods industries 11,285	MARKET CATEGORIES	Home goods and appared	tonsumer stappies 4,718	except automotive	and intermediate products 11,804	Intermediate products 102,348	Strppl.EMENTARY SERIES?	Household durable goods indus-		Nondefense. 139,742	INDUSTRY GROUPS AND INDUSTRIES		:	Primary metals 28,915	Nonferrous and other primary 18,05				and	material-handling equipment. 10,363

See footnotes at end of table,

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES - CONTINUED

(Millions of dollars)

													-			The same of the same of		
					Seasona	Seasonally adjusted	pa				1		Not	seasonall	Not seasonally adjusted?	**		
			Mon	Monthly				Quarterly						Monthly	11.1			
SIC	Industry group	Mox	100	May	Boh	11	-	-		AL		Last 4 m	4 months		Las	Last 4 months a year	a vear ago	
		1981P	1981	1981	1981	1980	1980	1980	1980	1979	May 1981P	Apr. 1981	Mar. 1981	Feb. 1981	May 1980	Apr. 1980	Mar. 1980	Fcb. 1980
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries														_			
36	Continued Electrical machinery	42,297	41,888	41,538	41,074	39,710	38,534	38,830	37,944	35,631	42,076	41,876	41,450	41,108	38,610	38,802	37,863	37,179
361,2	Electrical transmission and																	
	industrial apparatus						7,825		7,657	7,531	8,449	8,321	8,291	8,213	8.043	8.118	7.669	7.626
363	Household appliances	977	438	437	414	433	087	333	310	364	470	462	452	438	315	307	321	334
365	Radio and TV						438		395	342	165	348	977	465	316	292	360	453
366	Communication equipment						18,659		17,592	16,123	21,588	21,440	21,249	20,949	17,999	18,047	17,560	17,102
367	Electronic components						10,225		11,014	10,308	10,414	10,321	10,038	10,023	10,993	11,085	10,992	10,727
37	Transportation equipment		115,555	114,699			113,058	109,601	105,642	102,906	115,736	115,426	115,391	115,131	108,565	108,740	106,182	105,410
372,6	Aircraft, missiles, and														_			
	parts	93,465	91,848	91,397	90,622	89,578	90,632	88,827	81,804	77,929	91,935	91,503	91,972	91,703	86,576	85,806	82,299	81,271
3731	Shipbuilding and military		0.00	000	000	1,000	000	000	600	11 004	1		200	200				
27.22	Calls Vells description		6/0147	74,500	707 447	750 6 41	13,203	77,177	167911	167177	10,034	C90 °CT	14,300	14,200	710'11	11,040	667 17	10,975
200	products	6,236	6,298	6,429	077,9	6,341	6,232	6,295	6,459	5,985	6,224	6,327	6,415	6,369	6,327	6.399	6.441	6.333
25																		
39	J industries	3,680	3,792	3,537	3,211	2,841	2,817	3,084	3,514	3,317	3,831	3,809	3,415	3,014	3,420	3,564	3,389	3,164

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations unfilled orders and new orders are the totals for the period and are adjusted for trading day or caledarements series are regroupings of the soperate industry categories as follows
The supplementary series are regroupings of the soperate industry categories and pottery, handrools, and hardware, household appliances, radio and TV ophthalite goods, watches, and clocks and riscellaRousehold darable goods industries-Household furniture, kitchen articles and pottery, cutlery, handrools, and hardware, named appliances. The supplications of the soperate and series and riscella-

Capital Googney indistrier depressions between the pressions between the defense order of the defense order of the defense order of the defense order

The data are comparable to those published annually in the the. The properties of th

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Table 4. NALIT OF WANTFACTINERS' INVENTIONES FOR INDICTRY OROTES, WARKET CATEGORIES, AND SUPPLEMENTARY SERIES

illions of dollars)

							Willions	Willions of dollars)	,									
					Seasona	Seasonally adjusted	2						Not	seasonally	seasonally adjusted?			
			Mon	Wonthly			5	Quarterly						Wonthly	1y			
SIC	Industry	Mav	Apr.	Mar.	Feb.	4	1111	111	-	1		Last 4 mc	months		Last	t 4 months	a year ago	
		1981	1981	1981	1981	1980	1480	1980	1980	r_61	Mav 1981P	Apr.r 1981	Mar. 1981	Feb. 1981	May 1980	Apr. 1980	Mar. 1980	Feb. 1980
	TOTALS																	
	All manufacturing industries	256,423	255,010	253,450	251,231	244,493	243, 115	243,630	238,522	228,258	257,431	256,114	254,867	252,843	244,901	243,705	234,837	236,758
	cluding transportation	219,321	218,004	216,595	214,502	209,264	209,665	210,942	207,075	198,342	220,757	218,963	217,514	215,943	212,685	211,484	208,128	205,848
	unfilled orders	177,296	177,064	175,645	174,833	169,949	168,621	108,682	164,504	158,073	179,31-	178,365	176,756	175,390	170,371	168,013	165,566	163,102
	Durable goods industries	168,555	168,007	166,830	166,278	101,407	160,691	160,404	157,127	151,689	170,302	109,461	168,437	167,426	162,275	101,306	158,721	15,470
	orders	157,786	157,432	156,248	155,561	151,325	150,081	149,701	146,068	140,133	159,346	158,525	157,378	156,281	151,054	149,474	147,148	145,121
	Nondurable goods industries	87,868	87,003	86,620	84,953	82,586	82,924	83,226	81,345	76,569	87,629	86,653	86,230	85,417	82,626	82,399	81,116	80,288
	orders	19,510	19,632	19,397	19,272	18,624	18,540	18,981	18,441	17,439	19,968	19,840	19,378	19,109	19,317	18,934	18,418	17,981
	MARKET CATEGORIES																	
	Home goods and apparel	19,007	18,868	18,633	18,419	18,118	17,845	18,286	18,168	17,584	19,715	19,172	18,015	18,288	19,104	18,723	18,154	17,712
	Equipment and defense products, except automotive	72,825	72,506	71,609	71,612	196,967	69,213	67,819	64,718	61,621	73,472	73,160	72,497	72,112	67,809	65,851	65,567	64,240
	Construction materials, supplies,	0014	007 4	1	7171	677"	19616	7000		10,347	4,017	9,173	507'6	9,548	96896	10,450	10,382	10,424
	and intermediate products	20,850	20,508	20,427	20,270	20,035	14,669	19,954	20,166	19,646	21,180	20,969	20,942	20,761	20,417	20,618	20,672	20,036
	intermediate products	102,506	102,218	101,543	100,065	156,851	96,496	97,506	94,867	89,311	.03,088	102,230	915,101	100,366	97,926	786*96	64,943	94,076
	SUPPLEMENTARY SERIES																	
	Household durable goods indus- tries. Capital goods industries. Nondefense. Defense.	9,457 81,994 68,566 13,428	9,447 81,666 68,419 13,247	9,320 80,835 67,825 13,010	9,226 80,599 67,954 12,645	9,155 78,209 66,171 12,038	9,058 77,401 66,091 11,310	9,267 75,370 64,782 10,588	9,311 72,177 62,102 10,075	9,180 68,640 59,178 9,462	9,777 82,895 69,342 13,553	9,586 82,414 69,168 13,246	9,356 81,555 68,594 12,961	9,208 80,858 68,258 12,600	9,718 75,499 64,946 10,553	9,643 74,444 64,164 10,280	9,350 72,853 62,813 10,040	9,218 71,378 61,793
	INDUSTRY GROUPS AND INDUSTRIES															-		
32 322 33	Durable goods industries: Stone, clay, and glass products Glass containers. Primary metals.	6,477	0,342 578 21,680	6,355	6,272	6,067 563 20,285	5,920 554 20.187	593	5,987	5,643	598	588	6,512 585	5,479	6,257	600	585	5,938
331 333-6,	Blast furnaces, steel mills	11,252	11,416	11,519	11,489	10,884	11,045	11,751		10,834	11,083	11,050	11,277	11,408	11,550	11,105	10,917	11,256
9 34 341	Fabricated metal products	19,361	8,875	8,749	8,565	8,040	7,807	7,741	7,848	7,563	9,026	8,990	8,845	8,677	7,898	7,992	7,935	7,757
35 351 352 353	Machinery, except electrical Engines and turbines Farm machinery and equipment.	1,327 39,452 2,451 2,837	1,322 39,062 2,475 2,822	1,359 38,909 2,494 2,837	1,513 38,865 2,522 2,846	1,468 38,352 2,529 2,822	1,267 39,107 2,496 3,154	1,439 38,940 2,558 3,195	1,502 37,609 2,703 3,114	1,554 36,624 2,701 3,108	1,490 39,836 2,486 2,905	1,495 39,542 2,501 2,926	1,510 39,470 2,486 3,004	1,530 39,283 2,534 3,023	1,760 39,466 2,731 3,286	1,782 39,122 2,773 3,328	1,e69 38,193 2,698 3,298	1,548 37,959 2,713 3,264
354	material-landing equipment. Metalworking machinery General industrial machinery.	8,628 2,375 3,753	8,467 2,392 3,749	8,353 2,369 3,689	8,229 2,425 3,747	8,206 2,476 3,670	8,589 2,544 3,715	8,739 2,560 3,725	8,308 2,436 3,671	8,150 2,314 3,650	8,628 2,391 3,775	8,585 2,408 3.775	8,546 2,378 3.744	8,418	8,669	8,608	8,499	8,503
See	See footnotes at end of table.						-	-		-	-	-		-				

Table 4. VALUE OF MANUPACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATECORIES, AND SUPPLEMENTARY SERIES -- CONTINUED

(Millions of dollars)

		_	20074 10074 10074	00000	2001	
20,431 1,831 1,831 1,831 1,632 1,150	246 2772 281 281 282 283 288 288 288 288 289 299 299 290 290 290 290 290 29	1,982 2,083 1,2,279 12,046 1,137 20,222 1,139 1,062 1,738 1,899 1,728 1,598 1,758 1,598 1,759 2,666 1,810 2,030 1,430 2,030 1,430 2,630 1,430 2,630 1,430 2,630 1,430 2,433 1,440 4,439 4,470 4,817 1,2,641 12,832	2,1,56 2,079 2,079 2,079 2,079 2,079 2,035 2,035 2,035 2,035 2,035 2,035 2,036 2,048	12,279 1,918 1,918 1,918 1,918 1,918 1,919 1,919 1,618	21,164 21,302 21,337 2,006 2,007 21,337 2,006 2,007 2,	12,308 12,337 12,166 12,279 21,238 21,164 21,362 11,337 3,990 3,782 3,860 3,738 11,397 11,844 21,392 11,391 11,397 11,844 21,392 1,391 11,397 11,844 21,392 1,391 11,397 11,844 21,392 1,391 11,397 11,844 21,392 1,391 11,397 11,844 21,392 1,391 11,397 11,844 11,601 11,391 11,397 11,844 21,391 11,397 11,394 11,391 11,397 11,394 11,391 11,397 11,391 11,397 11,391 11,390 11,391 11,390 11,391 11,390

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Eshipments and new orders are the totals for the period and are adjusted for triding-day and calendar-month wariations, untilled orders are as of the tens of the period and are not adjusted for triding-day and calendar-month wariations.
The supplementary screen wariations.
The supplementary screen contracts—Household furniture, kitchen articles and portery, curlery, handtools, and hardware, household appliances, radio and TV. ophthaloric goods, watches and lister and restrict goods indestrees—companable to the previous produces" central goods and interesting and replaced expensions and the detense produces to Garcels oracle goods.
The supplementary (excluding farm anchinery and equipment and anchinery and equipment, aircraft and aircraft parts, and ordnance, regions of shiphulding and replating and aircraft parts, and ordnance, communication equipment, aircraft and aircraft parts, and ordnance and aircraft parts and aircraft and aircr

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Orone, Lipp and glass produces

Fortier of the second Durable goods industries.
Store. Clay, and glass products.
Frimary metals.
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Transportation equipment.
Instruments and related products.
All other durable goods industries. goods industries.
s and allied products.
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ut plastics products, n.e.c.
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Prices City and glass products.

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Pair feet of the state of the st Directible (world infinitely and produces stone clay and glass produces primary seed as the control of the cont MATERIALS AND WORK

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

			Pe	rcent chang	es				Revisions2	
Item and industry group	M	onth-to-mon	th	Avera	ge monthly	rates of ch	ange ¹	Year	Average	monthly
frem and industry group	Apr. 1981- May 1981	Mar. 1981- Apr. 1981	Feb. 1981- Mar. 1981	First quarter 1981	Fourth quarter 1980	Third quarter 1980	Jun. 1980 through May 1981	адо Мау 1980	May 1980 through Apr. 1981	May 1976-1980
Shipments:										
All manufacturing industries	+0.7	-0.1	+0.5	+0.7	+1.4	+2.6	+1.2	0.1	0.3	0.3
Durable goods industries	+0.5	+0.7	+1.2	+0.8	+1.5	+3.5	+1.5	-	0.3	0.3
Nondurable goods industries	+1.0	-1.0	-0.1	+0.5	+1.3	+1.7	+0.9	0.3	0.5	0,6
Inventories:										
All manufacturing industries	+0.6	+0.6	+0.9	+1.2	+0.1	-	+0.4	0.2	0.2	0.1
New orders:										
All manufacturing industries	+0.6	-0.5	+1.2	+0.5	+1.5	+3.9	+1.4	0.5	0.4	0.4
Durable goods industries	-0.2	+0.1	+2.4	+0.6	+1.5	+5.9	+1.9	0.4	0.6	0.4
Nondurable goods industries	+1.4	-1.0	-0.1	+0.4	+1.4	+1.9	+1.0	0.4	0.4	0.7
Unfilled orders:										
Durable goods industries	+0.4	+0.6	+0.8	+0.5	+0.6	+0.5	+0.4	0.1	0.1	0.1

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

TDB5CG	on beabona	ily adjusted	data,					
Industry group	Inv	entoriessl	nipments ra	tio	Unfil		-shipments : backlog)	ratio!
Industry group	May 1981 ^p	Apr. 1981	Mar. 1981	Feb. 1981	May 1981 ^p	Apr. 1981 ^r	Mar. 1981	Feb. 1981
All manufacturing industries	1.57	1.57	1.56	1.55	3.49	3.49	3.45	3.48
Durable goods industries	2.03	2.03	2.03	2.05	4.15	4.17	4.12	4.15
Stone, clay, and glass products	1.45	1.37	1.41	1.36	0.60	0.57	0.60	0.61
Primary metals	1.85	1.82	1.84	1.72	2.47	2.48	2.50	2.33
Fabricated metals	1.95	1.94	1.89	1.93	3.02	3.01	2.96	2.98
Machinery, except electrical	2.57	2.55	2.51	2.55	4.12	4.15	4.05	4.10
Electrical machinery	1.98	2.09	2.05	2.09	3.61	3.75	3.72	3.76
Transportation equipment	2.11	2.12	2.18	2.36	12.26	12,16	11.79	13.32
Instruments and related products	2.26	2.39	2.23	2.25	1.61	1.71	1.67	1.69
Nondurable goods industries	1.09	1.09	1.08	1.05	0.69	0.66	0.66	0.67
Food and kindred products	0.98	0.95	0.97	0.96	(X)	(X)	(7)	(X)
Tobacco products	3.09	2.93	3.10	2.88	(X)	(X)	(X)	(X)
Textile mill products	1.40	1.44	1.45	1.45	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.29	1.27	1.25	1.25	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.35	1.34	1.26	1.28	(X)	(X)	(X)	(/)
Petroleum and coal products	0.62	0.65	0.62	0.55	(X)	(X)	(X)	(\)
Rubber and plastics products, n.e.c	1.35	1.33	1.35	1.33	(X)	(X)	(7)	(X)

⁽NA) Not available.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.
²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Preliminary.

rRevised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums: farm metalinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products and object of the products; and related products, and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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BUREAU OF THE CENSUS

Manufacturers' Shipments, Inventories

JUNE 1981

For Wire Transmission 2:30 P.M. E.D.T. Friday, July 31, 1981

(All figures in text below are in seasonally adjusted current dollars.)

The January through June data presented in this report are consistent with the revised data for 1972-1980 released July 21, 1981 by the Department of Commerce. These revisions, published in Manufacturers' Shipments, Inventories, and Orders: 1972-1980 (M3-1.10), reflect: benchmarking of the shipments and inventory data to the 1977 Census of Manufactures and the 1978 Annual Survey of Manufactures; benchmarking defense shipments to the MA-175, Shipments to Federal Government Agencies; recalculation of new orders estimates which are derived from the estimates of unfilled orders and shipments; adjustments to unfilled orders levels; and updating of seasonal adjustment factors.

New orders for manufactured goods in June increased \$1.5 billion or 0.9% to \$170.9 billion the Department of Commerce, Bureau of the Census reported today. New orders for the durable goods industries increased \$0.3 billion or 0.4% to \$88.5 billion, revised from the earlier reported decline of 0.8%. Most of the revision was due to more complete reporting in the transportation and nonelectrical machinery categories.

Within the major durable industry categories the pattern of change in new orders from May to June was mixed. New orders for electrical machinery were up \$0.9 billion or 7.4% to \$12.6 billion, with communication equipment and radio and TV's showing the largest increases. New orders for transportation equipment were down in June \$0.8 billion or 3.8% to \$19.3 billion. The largest decline was in aircraft and parts orders. down \$1.6 billion or 27% to \$4.2 billion. New orders for the aircraft and parts industry so far this year have averaged \$5.1 billion, compared to the monthly averages in 1980 of \$5.3 billion, and 1979 of \$5.4 billion. New orders for fabricated metal products were up \$0.5 billion or 4.2% for the month to \$11.1 billion, while orders for primary metals were down \$0.5 billion or 4.6% to \$11.3 billion. The primary metal decline was attributable to the nonferrous category which has shown order declines in 7 of the last 8 months.

New orders in the capital goods categories, both defense and nondefense, were down in June. New orders for nondefense capital goods were down \$0.6 billion or 2.6% to \$23.2 billion, as the decline in aircraft orders was only partially offset by increases in most of the other categories. Without the aircraft industry, nondefense capital goods orders increased 2.1%. New orders for defense capital goods decreased \$0.2 billion or 4.6% to \$5.1 billion, following a 35% increase last month.

Shipments of manufactured goods in June increased \$3.4 billion or 2.0% to \$171.0 billion. This is the largest one month increase recorded since a 2.6% increase last October.

A 2.1% increase in durable goods shipments was mostly attributable to a gain in the motor vehicle and parts category. Shipments for that industry were up \$1.1 billion or 9.4% to \$13.4 billion, nearly double the volume of shipments of June 1980 of \$7.6 billion.

A 2.0% increase in nondurable goods shipments resulted from widespread gains. The largest dollar increase occurred in the food products industry where an increase of \$0.6 billion or 2.9% to \$22.6 billion followed a 3.4% decline in May.

The level of manufacturers' unfilled orders in June remained virtually unchanged from May at \$326.5 billion. An increase in the backlog of orders for defense capital goods of \$1.1 billion or 1.5% to \$75.0 billion was offset by a \$1.1 billion decline in nondefense capital goods orders backlog. The decline in the nondefense category was caused mostly by a drop in the commercial aircraft industry.

The book value of manufacturers' inventories in June remained unchanged from May at \$269.3 billion. Durable goods inventories increased 0.3% while nondurable goods inventories declined 0.5%. Manufacturers' inventories by stage of fabrication in June showed a somewhat different pattern of change. Raw materials inventories were down 0.1%, work-in-process inventories down 0.7%, while finished goods inventories increased 0.9%. The inventory to shipments ratio for June was 1.58 down from 1.61 recorded in May.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for July is scheduled for release on August 21, 1981, and the full report is scheduled for release on September 1, 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank, Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

						CMILLIOUS	(Williams of dollars)								
				Seasonally adjusted	adjusted					Ne	Not seasonally adjusted	adjusted			
SIC	Industry	June	May	April	March	Feb.	Jan.	Jane	May	April	March	0	Tan	Year-to-date	-date
		1981P	1981	1981	1981	1981	1981	1981 P	1861	1981	1861	1981	1981	1981	1950
	TOTALS						1								
	All manufacturing industries	170,958	167,527	167,491	165,804	165,508	164,588	179,418	169,040	170,022	175,250	167,163	152,094	1,012,987	91
	extluding transportation	150,524	148,397	148,531	147,352	148,170	147,647	157,496	148,973	150,149	154,728	149,450	136,559	897,361	816,768
	unfilled orders	89,862	88,369	87,948	88,048	170,78	85,761	95,177	89,150	158, 351	93,241	87,688	78,356	532,963	₹61,87₽
	Durable goods industries	88,470	86,664	86,327	85,058	84,215	83,329	94,722	88,289	88,627	91,521	84,746	75,385	523,290	810,202
	orders	72,814	71,630	71,105	71,268	70,389	965'69	77,769	72,411	72,512	090'94	70,896	63,132	432,780	388, 494
	Nondurable goods industries	85,488	80,863	81,164	972*08	81,293	81,259	969, 48	80,751	81,395	83,729	82,416	76,739	969'687	446,256
	orders	17,048	16,739	16,843	16,780	16,687	16,166	17,408	16,739	16,839	17,181	16,792	15,234	100,183	90,702
	MARKET CATEGORIES														
	Home goods and apparel	12,489	12,235	12,282	12,054	12,173	11,869	12,858	11,591	11,821	12,544	12,178	10,233	71,195	65,040
	except automotive	25,667	25,241	25,185	25,641	24,315	24,233	27,711	25,416	25,491	27,412	24,483	21,792	152,305	137,156
	and intermediate products	12,819	12,812	13,056	13,100	13,040	13,062	13,992	13,275	13,413	13,125	12,236	10,827	76,868	69,170
	intermediate products	75,611	74,898	74,137	73,626	74,484	74,316	78,686	75,898	75,918	78,063	76,500	71,036	456,101	415,388
	SUPPLEMENTARY SERIES?														
	Household durable goods indus- tries. Capttal goods industries. Nonde tense	5,373 28,349 24,325 4,024	5,291 27,982 24,041 3,941	5,547 27,773 23,810 3,964	5,292 28,159 23,999 4,161	5,322 26,923 23,062 3,861	5,124 26,721 23,156 3,564	5,575 30,394 26,184 4,210	5,105 27,969 23,954 4,015	5,352 27,960 23,965 3,995	5,598 30,049 25,774 4,275	5,276 27,367 23,532 3,834	24,184 20,892 3,291	31,283 167,923 144,301 23,620	28,330 152,842 133,226 19,616
	INDUSTRY GROUPS AND INDUSTRIES														
32 322 33 331 331	Durable goods industries: Stone, clay, and glass products. Glass containers Primary metals Monderous and other primary.	4,147 537 11,802 6,170	4,180 498 11,824 6,209	4,293 523 11,691 6,101	4,211 457 11,321 5,622	4,216 466 11,896 5,896	4,170 463 12,304 6,286	4,525 567 12,619 6,614	4,279 501 12,267 6,364	4,364 511 12,431 6,437	4,277 523 12,559 6,392	3,903 447 12,253 6,108	3,476 419 11,353 5,765	24,824 2,968 73,482 37,680	21,854 2,361 70,257 32,421
341	Fabricated metal products	4,517	4,472	4,460	4,522	4,836	4,840	4,784	4,683	4,789	4,936	4,959	4,505	28,656	30,877
35 351 352 353	Machinery, except electrical Engines and turbines Farm machinery and equipment. Construction, mining, and	813 17,039 1,355 1,317	826 16,775 1,373 1,216	16,836 1,364 1,278	836 16,919 1,227 1,214	906 16,573 1,254 1,136	875 16,636 1,383 1,264	925 18,445 1,478 1,439	865 16,869 1,362 1,309	840 17,194 1,351 1,460	854 18,412 1,461 1,470	856 16,982 1,358 1,221	720 15,160 1,294 1,195	5,060 103,062 8,304 8,094	5,094 90,852 7,158 7,224
354	material-handling equipment Metalworking machinery General industrial machinery	3,307	3,318	3,223 1,008 1,391	3,160	3,262 1,009 1,336	3,197 971 1,261	3,462 1,079 1,469	3,384 939 1,509	3,400	3,321 1,114 1,543	3,339	3,069	19,975 6,030 8,454	18,188 5,645 8,015

See footnotes at end of table,

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEORIES, AND SUPPLEMENTARY SERIES-Continued

(Millions of dollars)

						(Millions o	of dollars)								
				Seasonally	adjusted					Not	ot seasonally	adjusted1			
SIC	Industry	Line	Mov	April 1	Morch	Yeh	Ton	Time	May	April	March	Feb.	Tan	Year-to-date	date
		1981P	1981	1981	1981	1981	1981	1981P	1981	1981	1981	1981	1981	1981	1980
	INDUSTRY GROUPS AND INDUSTRIES Continued														
	Durable goods industries														
36 361,2	Electrical machinery	11,680	11,597	11,373	11,284	11,041	10,777	12,331	11,338	11,301	11,812	11,293	9,986	68,061	62,070
363	distribution equipment and industrial apparatus	1,943	1,916	1,874	1,925	1,771	1,709	2,089	1,937	1,900	2,035	1,903	1,640	11,504	11,155
365 366	Radio and TVCommunication equipment		3,181	3,087	3,050	2,973	2,870	3,457	3,199	3,156	3,293	2,974	2,656	18,735	16,793
367	Electronic components		2,386	18,961	18,453	17,338	16,941	21,922	20,067	19,872	20,522	17,706	15,535	115,624	93,506
371,372,6	Motor vehicles and parts		12,257	11,987	11,285	10,909	10,543	14,427	13,045	12,664	12,912	4,354	3,738	28,348	24,537
3731 3795	Shipbuilding and military tank vehicles	1,191	1,155	1,175	1,141	1,161	1,103	1,231	1,159	1,178	1,151	1,068	066	6,777	6,301
381-4	Instruments and related products Scientific and engineering	2,510	2,404	2,345	2,475	2,317	2,353	2,706	2,399	2,356	2,591	2,325	2,221	14,598	13,107
24 25 39	All other durable goods	8,413	8,356	8,685	8,185	8,504	8,249	8,911	8,521	8,762	8,534	8,177	6,971	49,876	45,541
	Nondurable goods industries:													0000	;
20	Food and kindred products	22,576	21,931	22,700	5,125	22,121	5,383	23,084	5,353	22,312	5,182	5,243	20,901	31,652	122,266
208	Beverages	3,149	3,007	3,052	2,851	2,907	2,871	3,571	3,121	3,075	2,848	2,571	2,400	17,586	16,252
203-6,9	All other foods	9,241	8,849	9,325	9,078	9,353	9,456	9,380	8,477	8,933	9,876	9,711	8,633	55,010	52,277
21	Tobacco products	1,131	1,034	1,095	1,086	1,122	1,079	1,126	1,046	1,101	1,060	1,058	3.684	25,746	5,849
26	Paper and allied products	6,384	6,426	6,536	6,525	6,575	6,279	6,711	6,553	6,587	6,799	6,679	6,036	39,365	35,634
261-3	Pulp, paper, etc	2,811	2,854	2,829	2,890	2,847	2,742	2,954	2,951	2,899	3,006	2,898	2,610	9.907	900,900
264	All other paper products	1,687	1,640	2,077	2,015	2,078	1,960	2,028	1,939	2,018	2,098	2,116	1,939	12,138	10,657
28	Chemicals and allied products	15,199	14,875	14,704	15,166	14,911	14,865	16,051	15,413	15,607	16,472	15,250	14,074	92,867	84,464
9,182	Industrial Chemicals,	5.381	5,381	5,298	067"5	5,379	5,189	5,655	5,559	5,707	6,116	5,604	616.9	33,620	30,887
283,4	Drugs, soap, and tolletries	3,735	3,644	3,574	3,783	3,893	3,968	3,884	3,400	3,491	4,031	3,952	3,781	98,480	21,347
30	Rubber and plastics products	16,321	16,404	15,969	16,153	10,747	10,883	10,433	10,230	13,,723	10,107	160,71	10,000		
	n.e.c.	4,036	3,850	3,962	3,766	3,730	3,924	4,187	3,915	4,133	4,017	3,869	3,617	23,738	24,321
23	All other nondurable goods industries	12,390	11,993	12,003	11,886	11,920	11,674	12,342	11,430	11,708	11,854	11,992	10,495	69,821	63,162
4	T. C. C. C. C. C. C. C. C. C. C. C. C. C.						-								

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for trading day or calendar-month variations. Pprellminary.

The supplementary series are regroupings of the separate industry categories as follows:
Rusabioid durable and TV. ophthalvic goods, watches, and clocks; and
miscellancous personal goods.
Capital goods industries—Comparable to the previous producers capital goods and the defense products (old series) categories.

Nondefense products-Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic compromedense portions of shipbuilding and repairing and rathring and rathring and rathring and rathring and rathring and surface (equipment) are applianced expenses on the state of the second separate reports on defense work tiled by large defense contractors in the following industries: ordinance, communication equipment, africalt and africalt parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments to Rederal Government Agencies (formerly Shipments of Defense-Oriented Industries), for the specified industries.

TABLE 2. VALUE OF MANYPACTURERS. NEW CHORERS FOR INDUSTRY GROUPS, WARRET CATEGORIES, AND SCHERMANTANT SPELLES

Offillions 1 follars:

				Seasonally adjusted	adjusted					7	Vir seasmally affice of	aftertil.			
SIC	Industry									1				tent to date	A Che
		ly81P	May 1981	1981	lest h	[48]	Test.	1 JAN D	lanl		144]	144	148		Ŷ 7 7
	TOTALS														
	All manufacturing industries	170,888	169,340	168,544	147, 341	100,495	1. 1, 1.3	177,967	158,532	634,163	1,,,,,	5 2 2 2 4 2	11,134	1,022,785	1,
	Namelacturing industries excluding transportation	151,557	149,247	14.4. xxt	157,435	148,355	1,500	157,553	148,642	1.1,821	135,244	1,11,844	134,654	908,808	,
	Manufactoring industries with untilled orders	89,792	90,182	89, 143	54,600.	88, 154	54. 347	43,726	88,712	41,235	50,480	0,178	×3,394	542,261	143,245
	Darable gowls industries	88,486	88,164	87,180	41.7.48	Anti-Sa	χ	43,442	87,680	* 3, 2.4.	387,86	845,48	83,159	531,748	187, 534
	Darable goods with infilled	72,830	73,130	71,957	7.5. + 311	71,123	70,475	76,489	71,802	4,1.7	177,77	3,143	ь7, япь	441,238	54. 4 700
	Nondarable goods industries	82,402	81,176	×1, 14	30,631	81, 3,1	м, 11ь	84,525	80,922	11, 884,	43,771	4.103	78,474	490,535	1111, 122
	Industrics with unfilled	16,962	17,052	17, 183	10,000	111,934	121,13	17,237	16,910	17,128	17,223	12,486	15,49	101,024	4 C 7 T = 7
	Industries althout unfilled	055,440	64,124	bas, 5, 1	13,366	dus, trub	(1, 4)	67,288	210,24	1.4.5.7	16,344	4.146.4	11,485	389,513	355,554
	MARKET CATEGORIES														
		12,732	12,083	12,348	12,000	1,2,44.	E. P. 8.	13,126	11,484	1.,115	1., 721	1.,6 %	10,329	72,445	157,44
	Equipment and defense products, except automotive	25,183	25,365	25,606	21,834	28,74	11,746	26,791	24,852	16,44.]	.8,.1,	25,0 to 13,148	15,517	156,803	143,403
	Construction materials, supplies, and intermediate products	13,309	12,755	12,843	13,154	13,001	12,869	14,416	13,239	13,346	13,.81	12,149	10,914	77,445	19,207
	Other materials, supplies, and intermediate products	75,380	76,691	74,409	73,662	75,082	72,611	77,607	76,185	71.,734	78,630	17,817	71,809	458,842	414,875
	SUPPLEMENTARY SERIES?														
	Household durable goods Indus- tyles Capital goods Industries Nondefense.	5,621 28,375 23,237 5,138	5,119 29,248 23,865 5,383	5,603 28,699 24,723 3,976	5,473 29,307 24,463	5,675 27,436 21,185 6,251	5,764 29,353 24,833	5,843 29,704 25,084 4,620	4,981 27,903 22,797 5,106	29,301	5,783 30,499 25,918 4,580	27,863	4,594 28,690 24,068 4,621	32,488 173,451 145,366 28,580	181,392 136,482 136,484 24,388
	INDUSTRY GROUPS AND INDUSTRIES														
32 33 33 5 5 5	Durable goods industries: Stono, clay, and glass. Primary metals. Blast furnances, speel sills.	4,209 11,267 6,001	4,217 11,809 6,076	4,210	4,122 11,739 6,024	4,233 11,872 5,951	4,070	4,546 11,502 6,065	4,295 11,802 5,966	4,357 12,599 6,790	4,233 13,401 7,018	3,944 13,042 6,874	3,517	24,892 73,173 38,213	71,859 e6,767 29,963
35	Notice and other pressive Pabbics and other pressive Pabbics and other pressive Machines of the Pabbics and turbines	4,223 11,057 17,210 1,439	4,612 10,607 17,082 1,325	4,475 10,291 17,504 1,561	10,580 10,556 16,740 1,260	4,943 10,604 15,876 1,158	4,223 10,063 17,718 1,781	4,374 11,666 18,729 1,402	4,673 10,673 16,635 1,241	4,622 10,626 17,826 1,428	5,204 111,205 18,198 1,451	5,142 10,447 17,256 1,214	4,369 9,377 16,806 1,646	28,384 63,994 105,450 8,382	30,620 57,484 89,346 f,100
354 356	Construction, mining, and material material handling equipment Metalworking machinery	3,491 682	3,523	3,706	3,514 899 1,486	3,455	3,645	3,531	3,440	3,999	3,707 1,318 1,531	3,662	3,520 863 1,382	21,859 5,128 8,880	17,896
See f	See footnotes at end of table.														

See footnotes at end of table,

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES --Continued

(Millions of dollars)

Processive Groups And Industry June March 1981 1					Seasonally adjusted1	adjusted1					×	Not seasonally adjusted 1	adjusted1			
NUMBERING GROUPS AND NUMBERINS	-													3	Year to date	o date
Thoustern Groups And Division 1,590 11,721 11,960 11,200 11,416 12,948 11,570 11,825 12,231 12,047	SIC	Manacry	June 1981P	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	June 1981P	1981	1981	1981	1981	1981	1861	1980
Exercition machinety 12,93 11,721 11,900 11,000 11,410 12,948 11,570 11,825 12,731 12,047		INDUSTRY GROUPS AND INDUSTRIES														
Electrical machinery 12,93		Durable goods industries Continued														
Internation qualipment and displaying the property of the pr		Electrical machinery	12,593	11,721	11,960	11,666	11,290	11,416	12,948	11,570	11,825	12,231	12,047	11,215	71,836	65,912
Household appliance 1.184 1.111 1.185	7'1	distribution equipment and	1 896	2.127	1 74.8	1 988	1.819	1.991	2,013	2,059	1,930	2,114	2,039	1,953	12,108	11,7
Reading and TV Read	Co.	Household appliances	1,184	1,131	1,165	1,102	1,147	1,153	1,302	1,124	1,153	1,168	1,185	1,029	6,961	6,1
Communication equipment 3-942 3-116 3-117 3-118 3-		Radio and TV.	1,132	711	915	688	1,040	916	1,222	598	752	851	1,099	728	5,260	2,0
Experience components 2,234 2,535 2,232 2,337 2,232 2,337 2,33	9		3,942	3,136	3,617	3,512	2,966	3,333	3,761	3,392	3,395	3,570	3,15/	3,500	20,875	10.0
Transportation equipment 19,331 20,073 12,726 5,111 4,360 5,160 4,281 5,577 6,105 All other durable goods 1,324 3,737 3,737 3,737 4,233 3,406 3,737 4,233 3,406 3,737 4,233 3,406 4,260 4,768 4,165 3,891 4,136 All other durable goods 1,324 3,324 3,324 3,332 3,333 8,408 8,439 8,489 8,580 9,111 8,330 8,440 All other durable goods 1,324 3,324 3,324 3,331 3,331 3,331 3,340 3,340 3,340 All other durable goods 1,324 3,324 3,324 3,331 3,331 3,331 3,340 3,340 3,340 All other durable goods 1,324 3,324 3,324 3,333 3,406 3,330 3,331 3,331 3,440 All other durable goods 1,324 3,332 3,333 3,440 3,330 3,440 All other durable goods 1,324 3,332 3,333 3,440 3,330 3,331 3,331 3,440 All other durable goods 1,324 3,332 3,333 3,334	7		2,291	2,549	2,535	2,242	2,350	2,028	20,457	19.960	20 105	0.758	17.758	17.479	116,474	98,382
Shipbuilding and military 5 Shipbuilding and military 913 1,085 2,040 793 1,615 1,388 853 816 2,185 1,1384 1,384	2,6		100,61	660 607	10,070	756 1	20,03	2 111	096 7	2 160	186 7	5 576	7 100	2, 395	28.877	32.928
Supportant and retained Support		:	4,233	5,803	3,777	475,0	0,110	7,111	2000	2016	4074					
Instruments and related 4,395	95	tank vehicles	913	1,085	2,046	793	1,615	1,388	853	816	2,185	1,239	1,384	1,252	7,729	6,548
All other durable goods 8,424 8,742 8,773 8,408 8,739 8,439 8,899 8,580 9,111 8,830 8,440		Instruments and related products.	4,395	4,293	3,914	0,070	4,200	090"5	4,748	4,165	3,891	4,376	4,058	9,669	24,907	22,732
_		All other durable goods	8,424	8,342	8,773	8,408	8,739	8,439	8,889	8,580	9,111	8,830	8,440	7,170	51,020	45,743

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the exparate industry categories as follows:

Thousehold durplus goes industries—adjusted furniture; Mitchen articles and pottery; cutlery, handtools, and hardsard; howsehold appliance; radio and Th; opthalmic goods, warthes, and clocks; and niscella-Preliminary.

menus permits power and stress—comparable to the previous producers' capital goods and the defense products (old series) categories—declinery, except descripted (sectional feet man and months about the previous products—declinery, except descripted (sectional feet man and months about a man and products and ordered and ordered and ordered and ordered and ordered and ordered and ordered to the products and ordered and ordered and ordered and ordered to the products and ordered and ordered and ordered and ordered and ordered and ordered and ordered and ordered and ordered and ordered and ordered and ordered and ordered and ordered and ordered ordered and ordered o neous personal goods,

TABLE 3. VALUE OF MANYFACTURERS' INFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATECORIES, AND SUPPLEMENTARY SERIES

						(M11110)	Millions of dollars)	(8)								
				Seasonally	ad justed						Not sea	seasonally adju	adjusted1			
010	SHOWN WASHING									Current 6	months			Last 3 mc	Last 3 months (a year ago)	350)
Me	Anna Marken	June 1981	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	June 1981	May 1981	April 1981	March 1981	Feb. 1981	Jan 1981	June 1980	May 1980	April 1980
	TOTALS															
	All manufacturing industries	326,439	326,508	324.694	323 602	322, 345	395 1755	326,960	328,411	328.847	326 945	525,192	322,700	306,856	309,914	115 . 15
	Manufacturing industries excluding transportation	210,644	209,608	708,760	2017, 4015	306,822	346.637	211,786	211,732	217 960	210 386	208 873	206 435	198 947	167 707	207 240
	Durable goods industries	314,970	314,954	315 45!	312,598	310.926	569.605	315,455	316,736	317 342	315 727	314 017	111.769	296 068	298 684	304 041
	Nondurable goods industries	11,469	11,554	11 264	11 0005	11 119	1. 879	11,505	11,675	11 505	11 216	11 175	11 931	16 788	11 230	11 15.
	MARKET CATEGORIES															
	Home goods and apparel	4,876	609"7	4,782	4.856.4	7	153	066*7	4,710	4.853	5 3 3	320	3 915	7 387	4 359	4 528
	except automotive	191,394	191,990	191.739	191 374	190 058	189.446	191,518	192,595	193,134	192 302	191 480	140 791	177 928	178 366	180 618
	and intermediate products	17,627	17,137	17 195	17 409	17 355	17 394	17,825	17,401	17 437	17.504	17 348	17 335	17,953	18.192	18 614
	intermediate products	112,542	112,772	110.978	110.306	110.170	109 572	112,627	113,705	113.420	112 603	112 337	110.659	106,691	1 8 997	112 628
	SUPPLEMENTARY SERIES?															
	Household durable goods industries (aplial goods industries Nondefense	3,760 222,543 147,577 74,966	3,511 222,518 148,666 73,852	3,684 221.248 148 838 77.410	3,628 220,323 147,924 12,398	3 447 219 174 147,463 71,711	3.394 218,661 149.340 69,321	3,911 222,139 147,537 74,602	3,644 222,829 148,640 74,189	3,768 222,892 149,794 73,099	3,484 221,552 148,779 72,773	3,294 221,103 148,635 72,468	220.617 149,647 70.970	3 325 206.278 146,349 59,929	3.3'8 206.352 147.074 59.278	1,455 208, 399 149, 494 58 905
	INDUSTRY GROUPS AND INDUSTRIES															
32 33 331	Durable goods industries: Stone, clay, and glass. Primary metals.	2,303 28,547 16,860	2,240 29,080 17,028	29,095 17,161	28,955	2.376 28.536 16.524	2 360 28,561 16,469	2,363 29,148 17,433	2,341 30,264 17,982	2,325 30,730 18,380	2,332	29,818	29,029	25.597	27.334	2 827 29 492 15 605
333-6.9 34 35 351 351	Nonferrous and other primary metal products. Fabricated metal products Machinery, except electrical Engines and turbines	8,418 30,380 75,752 18,475	8,712 29,975 75,580 18,391	8,572 29,964 75,270 18,438	8.557 30,134 74,602 18.241	8,499 30,127 74,781 18,207	8,391 30,041 75,478 18,303	8,502 30,324 75,901 18,142	8,912 30,028 75,620 18,218	8.922 30.154 75.853 18.340	9.089 30.252 75,220 18.263	8.822 30,125 75,434 18,273	8,639 30,082 75,161 18,417	8,309 30,685 72,064 17,520		9.077 31.269 74.255 18.344
354 356	material-handling equipment Metalworking machinery General industrial machinery	10,632 6,385 6,531	10,448	10,243	9,760	9,406	9.213 7.300 6.346	10,632 6,347 6,517	10,563	10,507 6,872 6,531	9,908	9,522 7,108 6.351	9.199	8.070 7.938 6.608	8.356 7.958 6,692	8.632 8.037 6.726

See footnotes at end of table.

				Seasonally adjusted	adjusted						Not sex	Not seasonally adjusted 1	justed.			
SIC	Industry group	Trans	Mox	drawt 1	March	To P	Tan			Current 6	6 months			Last 3 m	Last 3 months (a year ago)	ir ago)
		1981p	1981	1981	1981	1981	1981	June 1981P	May 1981	Apr11 1981	March 1981	Feb. 1981	Jan. 1981	June 1980	May 1980	April 1980
	INDUSTRY GROUP AND INDUSTRIES															
	Durable goods industries Continued															
36	Electrical machinery	50,120	49,207	49,082	767'87	48.112	47.863	50,252	49,637	49,403	48.878	78,460	47,706	45,483	45,685	45 930
	distribution equipment and															
	industrial apparatus	8,399	8,446	8,234	8,361	8,298	8,250		8,522	8,400	8,371	8,293	8,157	8,066	8,123	8,199
363	Household appliances	428	434	424	415	394			6479	077	430	417	371	338	299	292
365	Radio and TV	379	189	414	482	522			165	349	447	867	318	426	317	294
366	Communication equipment	27,556	26,830	26,876	26,345	25,883		27,421	27,117	26,923	26,683	26,307	26,124	22,698	22,912	22,993
367	Electronic components	12,187	12,141	11,978	11,733	11,817	11,798	12,370	12,226	12,142	11,809	11,792	11,616	12.873	12,932	13.040
37	Transportation equipment	115,795	116,900	115,934	116,198	115,223	113,928	115,174	116,679	116,787	116,556	116,319	116.265	107,909	107.623	108.503
372,6	Aircraft, missiles, and parts	169,06	91,319	90,249	91,299	89,993	89,122	90,199	91,055	90,716	91,327	91,076	91,325	85,408	84,134	84,033
3731	Shipbuilding and military tank															
3795	vehicles	17,001	17,279	17,349	16,478	16,826	16,372	17,021	17,399	17,742	16,735	16,647	16.330	13,513	13,641	13,861
38	Instruments and related products	7,073	6,982	6,897	7,012	620'2	7,008	7,127	086'9	6,963	7,051	7,001	6,970	6.997	6.972	7.051
25	All other durable goods															
39	industries	2,000	066 7	5,003	4,915	4,692	4.457	5,166	5,187	5,128	4.779	4,484	4.220	4.373	4.611	4.714

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¹Shipments and now orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries—flowshold furniture; Mitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries—flowshold furniture; Mitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries—flowshold furniture; Mitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalatic goods, watches, and clocks; and

mestations parameters by produces of the previous produces (ordinated and the defense products (old saries) categories.

(pittl pools shoutches comparable to the previous produces (ordinated and the saries) and ordinated and TV, and electronic components), wholeves produces—flathery every electrical rectified firm anchines and equipment, and arrived part at retard for a struct part of shoutching and reparts and retard equipment, communication equipment and arrived part of shoutching and arrived part of shoutching and arrived part of shoutching and arrived part of shoutching and arrived part of shoutching and arrived part of shoutching and arrived part of shoutching and arrived part of shoutching and arrived part of shoutching and arrived part of shoutching and arrived part of shoutching and arrived annually in the Ma-173, Silpendia Overment Secretary Silpendia (or three predictions). For the specific industries, the specific industries, and shoutching annually in the Ma-173, Silpendia Overment Secretary and part of the specific industries. miscellaneous personal goods.

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	Wil am die faming militaties	.69, 75	2604 (c)		1	· · · · · · · · · · · · · · · · · · ·					,		<i>i</i>	۲.	7	<u>.</u>
	Man Parting Industries es-	AC. 10 .	X 16 10 2		11.	1		1117	¥ .	. 1.14	## - - - - - - -	i.	· .	· ·	i i	
	Mustake Lating and selvines with and Library	182,542	181,830	141,416	1.	11.0		- :	1 54,45	1		;	1			1.0.
	Duriolo geneds tyridatives or con-	178,900	177,000	11.71		17		- T	12,110			12,12	, f	,1	1	11.11
	parable goods are antilled	162,291	lul, a.	1.1.4	111	:	1	:		1.	;		j	i	1	:
	Nondin to be goods in his rules	41,134	11,000	10.		1.				ii . i	1		Ť.	. 1	<u>1</u>	
	Oriers	13, 40.	20,123	1		£		7		,		<i>!</i>		122	7	
	MARKET CAFFORDERS															
	office poorts and appared	13, 143	21,741	3.7	- 1	- ;		7.5.7		: 1		·		1.2.		
	Equipment and before products, except autocoltect.	74, 141	72,697	Z. Z.	,: 7 I	11.11	7.2 7.2	1:	* 1	7.1		7.1	12,111	11.4.	7	;;; ;;;
	Construction caternals, supplies, and intercediate products	27, 44.3to	22,085	21,000	1.0	.1, 8 4,		in.m	33,444	1	12,199	4	1.41.	71,143	21.504	.1 -1.
	Other caterials, and supplies, and intermediate products	108,291	138,264	10.783	1,44,	It b, 34 1	3 · ·	138,413	1 19, 45	1 *, 500 5	10., 49.	100,413	1:4,8-4	103, 36.	1 14,133	1. 4,023
	SUPPLEMENTARY SERIES.															
	Household durable goods industries Captual goods industries Nontefense Delense.	10,171 82,142 69,485 12,657	10,323 81,608 69,335 12,273	10, 680 31,260 69,100 12,185		2444	11.11.11.11.11.11.11.11.11.11.11.11.11.		70,110	2 2 8 4 E	81,105 81,105 11,005 11,005	10, 111, 86, 4.5. 111, 35, 5.1 111, 35, 5.1	1,23,11	11,542 2,4811 18,450	41.50	10,514
	INDUSTRY GROUPS AND IMPRESSIBLES															
32 33 33	Durable goods industries Stone, clay, and glass products Obse containes Privary metals. Hlast furnaces, steel mills.	6,620 616 23,172 12,147	6,539 63, 23,163 12,112	5,3% 595 23,492 12,3%2	12.5	2 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6 1 8 5 6 1 6 5 7 1 6 8 7 1 6 8	7.7.5 27.2 4 12,080	1,011	1.7 2 5 1.2 1 2.3 2	10,290	4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	, 263 , 364 , 3, 134 12, 547	12. 12. 12. 12. 12. 12. 12. 12. 12. 12.	7,337 138 22,73 12,594	* 000 00 00 00 00 00 00 00 00 00 00 00 0
333 6, 34	Nonferrous, and other primary metals	9,708	19,786	14 , 144 C	E. F.	1, 4 en	20,123	20,201	20,220	2.5.5.	20,214	20,132	10 5 5 E	20,263	30,805	9,748 20,73
351	Machinery, except electrical. Engines and turbines.	2,433	2,378	34,705 2,408	2,473	28.5	39,317	2,440	9,810 2,423	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2,432	2,4×1	34,402	39,771	40,083 2,689 1,244	39,717
353 354 356	Construction, wining, and material-handling equipment Metalworking methinery General industrial machinery	8,807 2,609 3,806	8,653	2,045	2,004 3,013	8,360 2,587 3,541	8, 36.7 2, 732 3, 514	8,874 2,617 3,840	8,714 .,n94	8,563 2,564 3,579	8, 624 2, 635 3, 644	8,495 2,700 3,477	8,471 2,732 3,648	8,784 2,842 3,570	8,748 2,846 3,658	8, #86 2,825 3, r.>

See footnotes at end of table,

				Seasonally	adjusted						Not sea	seasonally adj	adjusted1			
SIC	Industry group	į		1	1	i	ļ			Current 6	months			Last 3 mo	months (a year	ar agol
		1981	1981	1981	1981	1981	Jan. 1981	June 1981	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	June 1980	May 1980	Apr.11 1980
	INDUSTRY GROUPS AND INDUSTRIES															
	Durable goods industriesContinued															
36 361,2	Electric machinery	25,577	25,457	25,589	25,057	25,083	24,756	26,058	26,111	25,966	25,227	24,990	24,457	24,612	24,784	24,552
363		1,933	4,428	4,402	4,263	4,253	4,200	4,510	4,520	4,475	4,277	4,249	4,182	4,298	4,348	4,296
365	Communication equipment	8,900	8,835	1,466	1,444	1,418	1,371	1,548	1,571	1,466	1,406	1,361	1,314	1,371	1,398	1,330
367	Electronic components	4,741	4,741	4,773	4,560	4,596	4,562	4,817	4,798	4,826	4,597	4,603	4,500	4,493	4,414	4,367
371	Transportation equipment	9,251	9,376	38,305	38,111	9,568	9,612	38,182	38,478	38,460	38,457	98,181	9,829	34,054	34,070	34,247
372,6	Aircraft, missiles, and parts	24,740	24,421	24,266	24,001	23,750	23,651	24,678	24,566	24,482	24,237	23,957	23,490	20,095	19,580	19,162
3795	Shipbuilding and military tank vehicles	2,686	2,724	2,647	2,612	2,555	2,382	2,671	2,726	2,596	2,571	2,434	2,288	2,122	2,033	1.971
38	Instruments and related products.,	9,665	9,645	9,581	9,380	9,372	9,330	9,833	9,854	9,723	9,471	9,376	9,287	9,154	9,114	8,959
386	Scientific and engineering	2,252	2,267	2,283	2,259	2,246	2,269	2,326	2,358	2,358	2,291	2,230	2,219	2,205	2,237	2,209
24 25 39	All other durable goods industries	14,477	14,568	14,352	14,213	14,129	14,075	14,583	14,677	14,566	14,458	14,406	14,135	14,032	14,159	14, 294
C	Nondurable goods industries:	r r	7		6			0					1			
201	Meat products	21,730	22,114	22,055	22,237	22,074	22,133	20,650	21,276	21,610	21,977	22,343	22,877	1,997	20,367	20,837
208	Beverages	3,772	3,797	3,843	3,909	3,812	3,891	3,681	3,820	3,910	4,010	3,914	3,930	3,802	3,853	3,907
203-6,9	All other foods	12,363	12,551	12,411	12,476	12,386	12,229	11,423	11,672	11,765	11,984	12,386	12,790	10,970	11,1961	11,436
21	Tobacco products	3,617	3,699	3,643	3,689	3,604	3,699	3,447	3,592	3,688	3,828	3,855	3,946	3,339	3,397	3,512
26	Paper and allied products	8,390	6,562	6,545	8,286	8, 233	8,090	8,600	8,475	6,725	6,662	6,647	7.944	8.060	6,508	7.837
261-3	Pulp, paper, etc	3,020	2,983	2,976	2,972	2,999	2,918	3,074	3,050	3,016	2,992	2,968	2,874	2,828	2,787	2,696
265	Paperboard containers	2,262	2,204	2,212	2,188	2,136	2,076	2,319	2,252	2,240	2,171	2,101	2,047	2,144	2,126	2,076
28	Chemicals and allied products	20.210	20.029	19 490	19 488	19 201	18 879	19.894	20.011	3,145	19 710	3,065	3,022	18 937	19 173	19 168
281,6					200	400				*						
7000	pigments	7,004	6,880	6,719	6,693	6,550	6,438	6,864	6,880	h,716	6,651	6,651	4,587	6,580	6,532	6,473
29	Petroleum and coal products	10,108	10,278	9,932	9,885	9,117	8,422	9,869	10,204	9,581	4,397	8,795	0,630	5,7 IO	2,000 8,315	7,950
30	Rubber and plastic products,															
23	n.e.c.	5,633	5,616	5,652	5,538	5,539	5,321	5,659	5,706	5,766	5,673	5,623	5,405	7,431	5,840	6,042
27	All other nondurable goods industries	14,899	15,103	14,819	14,656	14,583	14,545	15,825	15,653	15,059	14,553	14,233	14,286	15,106	34,735	14,191
																and the second

Ppreliminary.

Supports and now orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are adjusted for trading-day and calendar-month variations.

The supplements series are exceptibles of the separate industry categories as follows.

Who supplements series are exceptibles of the separate industries—followed furniture, Eitchen articles and pottery, handrools, and hardware; household appliances, radio and followed, and recompanies of separate comparable to the pervictors produces? capital loods and the defense produces of objections of separate comparations of separate comparations of although design and reputring and reputring and reputring destinated equipment, comparations of applications of although an reputring and reputring and reputring dequipment, comparations of applications of although an reputring and reputring dequipment, comparations of although an equipment and reputring

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Table 5. VALUE OF MANUFACTURERS INVENTORIES, BY STACE OF FABRICATION, BY INDISIR, GROUP

Triangle Triangle						(M1111	ons of dolls	(5.2)								
Figure 179 Jame May April Marcel Feb. 1981				Sessonally	ad lasted						Not sean	snally adju	ad) isted1			
TOTALS	Industry	0000	100		Manage	4 6		1		Current 6	months			Last 3 mon	ths (a year	11/20
Colorest C		1981P	1981	1281	1991	1981	1981	lane 1991P	Vay	April 1981	March	Fe F.	Jan. 1981	Jane 1980	May 1980	1prt]
Fig. 20 177, 177, 177, 177, 177, 177, 177, 17	All manufacturing industries	269,275	269,260	2,17,3006	, tr. 5.	1 3	241,75	269,802	270,809	7 0 64.	247,348	364, 533	242,735	154,917	258,418	57,167
1, 19, 19, 19, 19, 19, 19, 19, 19, 19,	stries.	178,099	177,635	177,123	64.14.1	175,6.0	174,3	179,134	179,159	199,671	177,874	6.8.9.	174,255	170,744	172, 450	171,178
Comparison Com	Primary and gives produces	23,172	23,163	3,44.5	21	.346	22,771	23, 234	23,277	23, 31.	23, 391	3,313	73,136	22,59;	22,703	22,34
Comparison Com	Nonelectrical machinery	60,079	60,070	39,715.	17,618	29.18.	54,31	40,341	39,810	. ,	1 4	568,66	39,435	39,771	40,483	34, 1
Appendix Appendix	Iransportation equipment	38,547	38,427	38,300	1111.86	37,41	37,6,11	38,182	38,478	38,486	38,457	38,181	37,650	34, 154	34,070	36.247
10 10 10 10 10 10 10 10	Instruments and related products	9,665	9,645	14,581	14,38	1.,1.,	14,33	9,833	9,854	1,703	1,5	9,376	14,135	9,156	4,114	986. 1
Action A	Wondurable goods industries	91,176	91,625	941, 1815	41.4	8н, к	81,118	90,668	91,650	90,513	40° 014	84,205	88,180	86,166	86,368	85,989
WYERDARG & OFFICE STATES 5,683 5,584 6,783 7,883 7,8	Chemicals and allied products	20,210	20,029	19,443	19, EH8	9,117	8.83.6	19,894	10,204	19,691	19,710	8,795	19,221	18,937	19,173	19,168
### STREAM S. NO SIPPLIES 91,889 91,985 1,100 1	Rubber and plastics products n.e.c	5,633	5,616		5, 38		£ 1.1.1	5,659	55,729	4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	5000	55.213	5,4,5	5,631	068,2	6,042
Section of the production of	MATERIALS AND STPPLIES				-											
Color and antitative state 2, 645 2, 576 2, 577 2, 578	All manufacturing industries	91,889	91,955	1,513	11,90	F	4	91,924	91,794	5	43.3.2	4,172	91,833	188, 881	90,433	40°, T74
1,100 1,110 1,100 1,110 1,10	goods 1	55,653	55,282	5.,857	55,435	- V. I.	15,143	55,700	55,119	53,34	59,407	55,599	55,326	54,652	55,058	55,271
1,1,100 1,2,00 1,1,10	Primary netals	8,786	8, 595	4.13			1 27 7	8,746	8,574	, r	9,175	9,418	6,593	8,956	8,886	8,608
1, 2, 2, 3, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Fabricated metals	7,146	11.069	7,55	1.4.1	7,762	1, 548	11,170	10,897	7,414	7,531	7,633	7,330	7,600	7,881	7,915
Compare Comp	Electrical machinery	7,590	7,556	7,527	2,340	HR.	167'2	7,751	7,718	7.4.5	7, 153	7,407	7,378	7,483	7,535	7,524
1, 2, 2, 3, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 2, 4, 2, 4, 2, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 3, 4, 2, 3, 4, 3	Transportation equipment Instruments and related products	9,794	9,549	24.7	175.7	4	- 7	9,743	2,937	- 4 H	9,560	9,310	9,133	8,807	9,180	0,219
10 10 10 10 10 10 10 10	All other durable goods insustries	5,575	5,656	5,585	5,55	1,41	775.	5,465	5,473	7 7 %	267.5	2,533	5,463	5,360	5,386	5,162
1.00 1.00	good s	36,236	36,673	36,856	36,41.	36,381	36,115	36,224 1	36,675	36,455	36,915	36,573	36,507	35,229	35,375	35,503
Comparison Com	ban and	2,576	2,521	2844.4	1,1		1	2,566	2,554	7 7	7	36.	2,262	2,175	2,167	
Column C	All other mendurable goods industries	23,317	23,930	3,940	23,690	23,83	11.1.	23,358	23,859;	24,16	26,139	3,994	1,301	3,311	23,151	19,184
1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	WARK IN PROCESS															
Elizar production	All manufacturing industries	96,246	96,913	6+2.15	45,366	752 176	44,144	95,993	97,229	84,718	45,489	7 0	93,928	89,134	89, 686	89,169
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Durable goods industries	81,462	81,934	81, 10:1	8.7,584	80,040	7 6	81,304	82,138	81,902	81,343	80,7 8	79,624	75,350	75,638	75,225
1,960 1,75	Primary metals	9,111	9,157	8, 458	x,6-1	1 1 4 x	1 4 7 ×	9,125	9,222	7 7	8,835	8,657	8,529	0 1 1 8	8.4.25	8,230
11.11 1.15	Nonelectrical marchinery	17,960	7,826	7,794	7,815	, ,	1 2	17 649	1,494	7. 4.70	7,458	7,731	7,867	7,834	000,8	7,963
Appendix Appendix	Electrical machinery	13,181	13,098	13,134	17,843	12,866	11.582	13,265	13,300	13, 537	12,480	12,851	12,472	11,900	11,905	11,815
1, 2, 2, 3, 3, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 4, 5, 5, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	related	4,167	4,169	4,148	4,054	52 .7	3,916	4,191	4,226	4,219	14.4	24,841	3,901	3,949	4,062	3,852
Application Application	spond o	3,521	3,636	3,546	2011	3,457	3,50.5	3,512	3,577	3,530	56+15	5,472	3,471	3,335	3,403	3,433
to productive. 2,770 2,904 2,787 1,787 1,787 1,787 1,787 1,804 1,905 1,904 1,904 1,905 1,904 1,904 1,905 1,904 1,905 1,904 1,906 1,905 1,906 1,9	Vondurable goods industries	14,784	14,979	14,799	14,782	14,682	14,491	14,689	15,091	14, Hlt	14,74.	14,568	14,304	13,774	14,048	13,935
1,000 1,00	Petroleum and coal products	2,750	2,904	2,871	7.7.7	89	2,771	2,764	3,002	N. C.	., 460	2,808	2,736	2,494	2,488	2,393
Visible Goods Visible Good		1,023	1,055	1,064	1,0 16	1, 105	44) 8.083	1,005	8,333	10,04	1, 111	1,023	766 4	970	7 998	979
Control of the cont	FINISHED GOVUS															
Elas products	All manufacturing industrics	81,140	80,392	79,192	74,252	77,473	76,202	81,885	81,786	80,413	79,597	78,602	76,977	77,895	78,299	77,233
East products	stries	786'07	40,419	4 1, 265	1,149	39,660	39,188	42,130	41,902	41,650	41,125	40,540	39,306	40,732	41,354	40,682
4, 686 4, 699 10, 931 10, 931 10, 751 11, 751 11, 752 11, 752 11, 753	grass	5,275	5,311	5.309	5.288	5.070	0000	5,363	5,481	5,512	5, 148	5,035	2,8/2	5,048	5,093	5,127
Continue	Fabricated metalk	4,856	4,693	4,643	4,577	4,418	4,736	4,931	4,871	4,819	4,740	4,768	4,729	4,829	4,924	698.7
1,871 1,871 1,871 1,97	Nobelectrical machinery.	4,806	4,803	4,876	4,824	4,734	4,683	5,042	5,093	4,993	4,894	4,732	4,607	5,229	5,344	5,208
c goods functioners 2,534 4,572 4,470 4,470 4,770 c goods functioners 3,181 4,770 4,770 5,720 5,700 regions functioners 4,015 9,973 5,700 5,700 5,703 5,703 regions functioners 4,015 9,973 8,973 8,703 8,703 5,703 regions functioners 4,015 9,973 8,973 8,973 8,703 8,703 regions functioners 4,015 8,973 8,973 8,973 8,703 8,703 regions functioners 4,015 8,013 8,013 8,013 8,703 8,703 regions functioners 4,016 8,017 8,013 8,013 8,703 8,703 regions functioners 4,017 8,017 8,017 8,017 8,703 8,703 regions functioners 4,017 8,017 8,017 8,017 8,703 8,703 8,703 regions 4,017 8,017 8,017 8,017	quipment	3,843	3.771	3,871	3,917	3,957	5,875	3,885	3,860	3,863	3,946	3,990	3,998	3,967	4,012	3,983
140 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	related e goods	2,554	5,276	5,229	5,203	5,223	5,432	5,606	5,627	5,550	5,494	5,457	5,401	5,383	5.370	5,339
and all the products	Nondurable goods industries	40,156	39,973	38,927	39,103	37,813	37,014	39,755	39,884	38,755	38,472	38,062	37,671	37,163	36,945	36,551
plastics products, n.e.c 2,264 2,213 2,184 2,159 2,166 2,076	Chartcals and allied products	4,782	4,853	4,579	6,873	3,765	3,367	4,539	4,548	9,346	4,261	9,012	3,538	3,856	8,883	3,413
nondurable goods industries 23.640 71.151 21.386 23.748 23.052		23,264	2,213	2,184	23,386	2,166	2,076	2,283	2,320	2,339	2,312	2,299	2,130	2,401	2,561	2,606

Oppositationer.

Whitpments are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

(Based on seasonally adjusted data)

			Revisions ¹						
The and deduction among							Year	Average	monthly
Item and industry group	May- June 1981	April- May 1981	March- April 1981	Feb March 1981	Jan - Feb. 1981	Dec. 1980- Jan 1981	ago June 1980	June 1980 through May 1981	June 1976-1980
Shipments:									
All manufacturing industries	+2.0	+0.0	+1.0	+0.2	+0.6	+0.5	0.5	0.3	0.4
Durable goods industries	+2.1	+0.4	+1.5	+1.0	+1.1	-0.2	0.2	0.4	0.3
Nondurable goods industries	+2.0	-0.4	+0.5	-0.7	+0.0	+1.3	0.8	0.5	0.7
Inventories: All manufacturing industries	+0.0	+0.7	+0.4	+0.8	+1.0	+1.5	0.1	0.1	0.2
New orders:									
All manufacturing industries		+0.5	+0.7	+0.2	+0.9	-0.9	0.3	0.4	0.3
Durable goods industries	+0.4	+1.1	+0.5	+1.5	+1.5	-2.7	0.3	0.6	0.4
Nondurable goods industries	+1.5	-0.3	+1.0	-1.1	+0.4	+1.1	0.7	0.5	0.7
Unfilled orders:									
Durable goods industries	+0.0	+0.5	+0.3	+0.5	+0.4	+0.3	0.2	0.1	0.1

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

	(Bas	ed on se	asonally	adjuste	d data)								
	Inventoriesshipments ratio							Unfilled ordersshipments ratio ¹ (months' backlog)					
Industry group	June 1981 ^p	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	June 1981 ^p	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	
All manufacturing industries	1.58	1.61	1.60	1.61	1.60	1.59	3.63	3.69	3.69	3.68	3.70	3.74	
Durable goods industries	2.01	2.05	2.05	2.07	2.09	2.09	4.33	4.40	4.41	4.39	4.42	4.45	
Stone, clay, and glass products	1.60	1.56	1.49	1.52	1.51	1.49	0.64	0.61	0.58	0.61	0.63	0.64	
Primary metals	1.96	1.96	2.00	2.09	1.95	1.85	2.42	2.46	2.49	2.56	2.40	2.32	
Fabricated metals	1.87	1.87	1.89	1.88	1.90	1.97	3.09	3.07	3.12	3.10	3.13	3.22	
Machinery, except electrical	2.35	2.39	2.36	2.34	2.39	2.36	4.82	4.86	4.84	4.75	4.84	4.91	
Electrical machinery	2.19	2.20	2.25	2.22	2.27	2.30	4.29	4.24	4.32	4.30	4.36	4.44	
Transportation equipment	1.89	2.01	2.02	2.07	2.18	2.22	10.20	11.11	11.07	10.54	11.38	11.44	
Instruments and related products	2.25	2.29	2.38	2.27	2.27	2.31	1.64	1.66	1.71	1.70	1.71	1.74	
Nondurable goods industries	1.11	1.13	1.11	1.12	1.09	1.08	0.67	0.69	0.67	0.66	0.67	0.67	
Food and kindred products	0.96	1.01	0.97	1.01	1.00	0.98	(X)	(X)	(X)	(X)	(X)	(X)	
Tobacco products	3.20	3.58	3.33	3.40	3.21	3.43	(X)	(X)	(X)	(X)	(X)	(X)	
Textile mill products	1.48	1.51	1.56	1.54	1.57	1.58	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Paper and allied products	1.31	1.28	1.26	1.27	1.25	1.29	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Chemicals and allied products	1.33	1.35	1.33	1.29	1.29	1.27	(X)	(X)	(X)	(X)	(X)	(X)	
Petroleum and coal products	0.62	0.63	0.62	0.61	0.54	0.50	(X)	(X)	(X)	(X)	(X)	(X)	
Rubber and plastics products, n.e.c	1.40	1.46	1.43	1.47	1.48	1.36	(X)	(X)	(X)	(X)	(X)	(X)	

⁽NA) Not available. Preliminary. (X) Not applicable.

¹ The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences to the durable goods industries are shown in the advance report for the month.

¹Excludes the following industries with no unfilled orders: wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal rubber and plastics products, n.e.c.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey provides broad-based monthly statistical data on economic conditions in the domestic manufacturing sector. It is designed to measure current industrial activity and to provide an indication of future trends. The data are used extensively by the executive branch of the Government in developing economic, fiscal, and monetary policy; by the Bureau of Economic Analysis (BEA) as components of the gross national product estimates; and by trade associations, corporate economists, and other members of the business community as an analytical tool in their assessment of the current and future economic condition of the country.

The M3 shipments and inventory data are comparable to the totals published in the Annual Survey of Manufactures (ASM). The ASM is a sample survey of approximately 70,000 manufacturing establishments drawn from a 5-year census of manufactures universe of about 350,000 manufacturing establishments. In the ASM, each manufacturing location reports data on value of shipments, beginning and end-of-year inventories, as well as various other economic variables.

The monthly M3 estimates through 1980 are based on information obtained from approximately 4,500 reporting units and include most manufacturing companies with 1,000 or more employees. In addition, selected smaller companies are included to strengthen the sample coverage in individual industry categories. For firms which operate in a single M3 industry category, the reporting unit typically comprises all operations of the company. At the request of the Census Bureau, most large, diversified companies file separate reports for divisions which operate in different industrial areas.

Each company or reporting unit of a company in the survey is classified into 1 of 79 industry categories for which separate estimates are made based on the major activity of the reporting unit. Some reporting units include industry activities outside the M3 category in which they are classified. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category.

The M3 series is periodically benchmarked to the Census of Manufactures and the ASM for shipments and inventories. The most recent benchmark included data for 1977 and 1978. Since benchmark data for unfilled orders are not available, levels are based upon the ratio of unfilled orders to shipments of reporting companies. In the 1977-1978 benchmark report, unfilled orders levels were revalued based on unfilled orders to shipments ratios of reporting companies in the monthly M3 survey; the MA-300, a one-time annual supplemental survey of multi-establishment companies; and the ASM for single-establishment companies.

MONTHLY ESTIMATING PROCEDURE

The monthly estimates of shipments, unfilled orders, and total inventories are derived for each industry category by

multiplying the industry estimate for the previous month by the percentage change from the previous month for companies reporting in the current month.

Though collected as a separate item, new orders are not calculated according to the standard ratio-estimate procedure. The reason for this is that not all companies report new orders and some that do report this item limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. New orders are, therefore, computed by adjusting the current month's shipments by the change in the backlog of unfilled orders. (New orders equal current month unfilled orders minus prior month unfilled orders.) Thus, the estimate of new orders includes orders that are received and filled in the same month as well as new orders that have not yet been filled. Also included are the effects of cancellations and modifications on previously reported orders.

SEASONAL ADJUSTMENT

The monthly data on shipments, inventories, and unfilled orders are adjusted for seasonality at the most detailed level tabulated in the survey, using the X-11 variant of the Census Bureau's seasonal adjustment program. Data from January 1958 through December 1980 are included in the calculations of the factors used in this publication.

Seasonally adjusted industry aggregates are derived by adding seasonally adjusted components rather than by direct seasonal adjustment of the aggregates. New orders data are not independently seasonally adjusted but are derived at the most detailed levels from the seasonally adjusted shipments and the change in the seasonally adjusted unfilled orders and then similarly aggregated.

EXPLANATION OF TERMS

Value of Shipments—The shipments estimates published in the monthly survey are equivalent to value of shipments as reported in the ASM which are net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments is the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the shipbuilding industry, the value of shipments in a given time period varies considerably from the value of work done because of the long lead time between the input of the materials and labor and the delivery of the completed ship. For this industry and for aircraft and missile producers working under cost-plus contracts, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and M3 industry

category levels since the products of some four-digit SIC industries are used as materials by other industries within the same industry aggregate. The significance of the duplication within the specific M3 industry categories varies depending on their four-digit industry composition. It is most pronounced in a few highly integrated industry areas, such as primary metals and motor vehicles and parts.

For multiunit companies, the M3 reports received each month typically are not plant reports but are company or divisional level reports that encompass groups of plants. The actual sales reported are usually net sales and receipts from customers and exclude the duplication of interplant transfers. The reported sales are used to calculate month-to-month changes which bring forward the plant-based shipments for the industry category as estimated in the ASM.

Inventories—In the monthly survey and in the ASM, respondents are asked to report their inventories at book values. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of aggregate inventories for all plants in an industry is not precise.

There are also some inconsistencies between the M3 company or divisional reported inventory levels as compared with the ASM establishment reported levels. The change in the value of inventories, month-to-month as well as year-to-year, is considered to have greater significance and reliability.

Inventory data are requested from respondents by stage of fabrication, i.e., finished goods, work in process, and raw materials and supplies. However, the quality of these data is limited due to lower response rates and the inclusion of the same type of inventory under different stages of fabrication in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations received during the month on orders previously reported. They include orders received and filled during the month as well as orders received for future delivery. They also include the net sales value of contract changes which increase or decrease the sales value of the unfilled orders to which they relate. Orders are defined to include only those supported by binding legal documents such as signed contracts, letters of award, or letters of intent, although in some industries this definition may not be strictly applicable. In the case of letters of intent, the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included.

Unfilled orders include orders as defined above that have not been reflected as shipments. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net shipments.





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Manufacturers' Shipments, Inventories, and Orders

U.S. Department of Commerce BUREAU OF THE CENSUS

JULY 1981

M3-1(81)-7

For Wire Transmission 3 OOP.M. E.D.T. Tuesday, September 1, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods increased in July by \$2.2 billion or 1.3 percent to \$173.1 billion the Department of Commerce, Bureau of the Census reported today.

The durable goods industries accounted for the total increase in new orders, going up \$2.2 billion or 2.5 percent to \$90.5 billion. Within durable goods, the aircraft and parts industries, which are quite volatile month to month, increased \$2.0 billion or 50 percent to \$6.1 billion, following a 30 percent decline in June. Without the aircraft industry the increase in durable goods orders was much less significant, going up only 0.2 percent.

New orders for primary metals in July were up \$1.1 billion or 9.8 percent to \$12.4 billion. Steel orders increased 7.0 percent after 2 months of declines, while nonferrous metal orders increased 13.9 percent. New orders in the shipbuilding industry, also volatile monthly, amounted to \$1.6 billion in July, nearly double the June orders of \$0.9 billion. The main declines in durable goods new orders occurred in the machinery and automotive industries. Electrical machinery orders declined \$0.5 billion or 4.3 percent and nonelectrical orders were down \$0.3 billion or 1.6 percent. For the motor vehicle and parts industry, new orders showed a \$1.0 billion decline. For the automotive assembly portion of this industry, new orders directly reflect shipments for the month since no backlog of orders is reported.

Within the capital goods categories, new orders for nondefense capital goods increased \$1.8 billion or 7.9 percent to \$25.1 billion. A large increase in the commercial aircraft industry was partially offset by the decline in machinery orders. New orders for defense capital goods increased 10.3 percent from \$5.0 billion in June to \$5.5 billion.

Shipments of manufactured goods in July declined \$1.2 billion or 0.7 percent to \$170.3 billion. Except for June when shipments were reported up \$2.4 percent, the change in value of shipments monthly has been relatively flat since October, increasing at rates of less than 1.0 percent per month. This is the first decline in shipments reported since a 1.5 percent decrease in May 1980.

Within the durable goods industries where shipments were off \$1.3 billion or 1.5 percent for the month, the motor vehicle and parts industry declined \$1.3 billion or 9.6 percent to \$12.1

billion. Excluding that industry, durable goods shipments showed virtually no change in volume from June to July.

Shipments by the nondurable goods industries in July, valued at \$82.8 billion, similarly showed little change from last month. Decreases in the petroleum and food products industries were offset by increases in most of the other nondurable goods categories.

The value of the orders backlog of manufacturers in July was estimated at \$328.7 billion, up \$2.8 billion or 0.9 percent from June. This increase was a composite of small gains which were widespread throughout the durable goods industries. The unfilled orders to shipments ratio which peaked at 4.04 in May and June of 1980 has now dropped to 3.65.

The book value of manufacturers' inventories in July reached \$272.2 billion, up \$2.5 billion or 0.9 percent from June. Nearly all industries reported increases although petroleum inventories declined \$0.4 billion or 3.8 percent. The change in the value of inventories by stage of fabrication showed a somewhat different pattern from total inventories. Raw materials and supplies increased 1.7 percent for July while work in process and finished goods were up 0.3 percent and 0.7 percent, respectively.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for August is scheduled for release on September 22, 1981, and the full report is scheduled for release on October 1, 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell. (301) 763-2502.

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¹ Motor vehicle assembly plants close down for retooling, generally during July, August, and September, for the forthcoming model year. Year-to-year variations in both the timing and duration of the model changeover period are sufficiently great that the normal seasonal adjustment procedures do not adequately identify the seasonality during the period and may introduce substantial erratic movement. To compensate for this, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. These seasonally adjusted data are recompiled each month as additional information is received. The seasonally unadjusted automotive data are not subject to any special estimating procedure.

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		1981 P	1981	1981	1991	¥ .	Ė		114	183	100	Vpr.	A Fr C	Tane 1980	3.av 1.e80	4 ps		1 44
	TOTALS							-				,						
	All samufacturing industries	1.0.1	171 444	10, 0,	1	*	î,	Lk . 1		y	10.4)= 1	T	1, 532	152 400	7.	1.0 111 1	100 013	1 747 475
	Man ifacturing industries excluding treasportation	1.3 .1.	131.9 4	148	1-8,11	ţ,	1	111 121	1.	1 4 0 14	244 473	1.9.1+4	1.4 484	138 123	117. 208	13- 50- 1	035 088	441 254
	Manufacturing industries with untilled orders	90,136	pd. 3 sh	88, 16.1	r r	Min and	15 1 AND	* * .	17	10.40	8+150	2.5	,	83 343	, n 40 3	6.	111 -14	Tek +
	Durable goods infustries	, *	1, 90%	40,747 4	, , , , , , , , , , , , , , , , , , ,	10. 70.	30. · ·		£, c	4 145	r r r	, ** ** ** ** ** ** ** ** ** ** ** ** **	£.	101.00	1, 11, 1	b nxl .	502 515 1	531 +88
	Darable goods with unfilled	770 0 .	, x, T	21 5535 .	71 154	1 Kn :	.11		х 3	î F	7	11 412	ob o's	P. 14 40	6, 113		48 86	190 195
	Nondurable goods industries	×		A Link	41 154		1	7.1.	, [†]	* * *	7.	41 5.4.	19 151	60	7 15		10 - GN	.lr al.
	Nondurable goods with unfilled orders	17 114	15, 4, 8	16 754	115, 5.1	FE 13-3				1, 144	Tr. of	16 414	14,121	15 344	14,853	15 158	115 841	10- 824
	WARKET CATEGORIES														Ī			
	Home goods and apparel	17. 18.		11, 131	23, 23, 23,	. ÷	5 A	X	3 £	18	11 12	11 4.1		11 17.	1 289	10 49a 25 451	82 821 148 580	75, 128 183 814
	Equipment and defense products, except automotive	14 51		777	, , , , , , , , , , , , , , , , , , ,	\$ 1	1, 184	: 1	1. 11.	7. 4. 1. 4.	1, 914	5,7	₹.9 . *	() () () () () () () () () ()	7 7 7 P	3.5	5 6 5	158.127
	in s		2. 0. 45	1, 812		8.	3 4 7 15	19 J.J.	*	1 4 Mh.	,				11 139		84.23	90 518
	Other materials, supplies, and	110 278	73,714	75, 848	74,113*	7	322,425	.1. 0)	o 110	, × .	868 4	7, 43.8	7	67 740	96 612	64 275	126, 314	475 430
	SUPPLEMENTARY SERIES?																	
	Household durable goods indus- tries topital goods industries. Nondefense.	28, 580		787	27,773	16,241 86 469 72 458 12,013	15 58 81,803 50,217 11,596	15,114, 88,534 11,14, 1	7 = = 1 ·	, 100 , 188 35 , 488 4 300	21, 469 21, 469 23, 454	27 360 23 495 3, 445	25,201 20,008 20,008	22 022	25 127 3,434 3,434	25 128 21 822 3 822 3 832	37,140 194,048 196,461	32 411 176 043 159 234 22 809
	INDUSTRY GROUPS AND INDUSTRIES																•	
32	Durable goods industries Stone, clay, and glass	7	.00	. 180	£ 5.7			12 Obc.	139	3,	7	245. 2	2.4		2 60 2	or c		
322	Primary setals	12,031	11,810	11,824	11,691	1,56	1,386	1,240	10.859	12.628 6 517	12,267	12,431	4,137	10 369	397 10,671 4 847	11 '88	3 490	79,394
333-9	Nonferrous and other primary metals. Fabricated metal products.	10,515	+.522 10,591	10.594	10 454		14 197	31,430	4 195	11 400		10,724	4,324	4 715	4,129		32,854 73.238	
341	Metal cans, barrels, and	850	810	826	872	2,488	2.617	10 .	+32				908	421	872		5,986	6,002
35 351 352	Machinery, except electrical Engines and turbines	17,190	17,303	1,216	16,836 1,354 1,278	3,800	50,128	1,689	15.572	18.736	16,869 1,362 1,309	17,194	13,673	1,274	1,761	1,074	9.578	104 525 8 173 8 169
353	Construction, mining, and material handling courment.	3, 343	3.315	3,318	3.223	9,856	9,619	8,995	3,219	3,471	3.384	3,400	2,703	2.934	2,909	3,034		20 891
354	Metalworking machinery	1,511	958	1,481	1 308	2.910	2.957	2.987	1.373	1,537	1,509	1,429	1,192	1,047	1,278	1,378	6.850 4.841	9,207

VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued Table 1.

(Millione of dollare)

							(Millions	of dollars	9)									
				Seasonally	nally adjust	ted						Not	seasonally	adjusted a				
			Mon	Monthly			Quarterly					Wonth15	~				Year to	date
SIC	Industry	Ye.7.			1					Last 4 mc	months		Last	4 months	a year ago			
		1981	June 1981r	1981	1981	1981	1981	1980	July 1981p	June 1981	May 1981	Apr. 1981	Julv 1980	June 1980	May 1980	Apr. 1980	1981	1980
	IND: STRY CROUPS AND INDUSTRIES																	
	Durable goods and industries																	
361,2	Electrical machinery	11,765	11,679	11,597	11,373	34,649	33,101	32,704	10,395	12,330	11,338	11,301	9,150	10,714	16,038	10,115	78,452	71,220
36.3	s	1,914	1,948	1,916	1,874	5,738	5,404	5,679	1,679	2,094	1,937	1,900	1,556	1,921	1,731	1,789	13 187	12,711
366	Radio and TV	3,399	3,239	3,181	3,087	9,507	8,893	2,460	2,978	3,480	3,199	3,156	2,493	2,968	2,905	2,833	21 736 16 158	19,286
367 37 371	Electronic components Transportation equipment Motor vehicles and parts	18,761	20,440	2,386 19,130 12,257	18,961	58,531	52,732	53,019 33,086	16,502	21,924	20,067	19,872	13,142	14,807 8,271	2,223 14,521 8,086	15,507	132 127 84,499	106,648
372,6	Aircraft, missiles, and parts	4,545	868.4	4,724	4,827	14,459	13,626	13,868	4,253	5,258	4,820	4,891	3,902	4,339	4,327	4,314	32,629	28,439
3731	Shipbuilding and military tank vehicles	1,259	1,190	1,155	1,175	3,520	3,405	2,962	1,183	1 229	1,159	1,178	1,024	1,091	1,080	1,040	7 958	7,325
381-4 386	Instruments and related products	4,266 2,381 1,558	2,459	4,208 2,404 1,494	4,030 2,345 1,377	12,495	12,305	12,036 6,987 4,262	3,856	4,552 2,651 1,591	4,148 2,399 1,451	3,979 2,356 1,324	3,379 1,908 1,243	3,912 2,324 1,330	3,632 2,100 1,281	3,527	28.527 16.562 4.8.5	25,669 15,015 8,868
24 25 39	All other durable goods industries	8.665	8,483	8,356	8,685	25.52~	24,938	24,661	7.303	8.984	8,521	8,762	6,903	7,681	7,138	7,454	57,850	52,444
20 201	Nondurable goods industries: Food and kindred products Meat products	22,480	22.676 5.594 3.065	5,233	22,700	67.307 16.070 9.124	15,690	66,435 15,908	20,909	23,171 5,516 3,475	21,749 5,353 3,121	22,312 5,213 3,075	19,822 4,591 3,035	21,260	20,360	19,350	154,247 37 122 20 627	142,088 32,230 19,287
207		1,761	1,678	1,712	1,799	5,189	5,233	5,201	1,630	1,675	1,668	1,812	1,495	1,368	1,448	1,454		10,087
22	To	1,225	1,154	1,034	1,095	13,012	3,287	3,305	1,215	1.149	1,046	1,101	1,073	963	1,035	3,901		26,760
26	Б	6,534	2.797	6,426	6,536	19,354	19,379	18,728	0.144	6,720	2,951	2,899	5,560	6,120	5,780	2,699		41,194
265		1,719	1,700	1,640	1,630	5,904	4,848	4,612	1,582	1,743	1,663	1,670	1,341	1,483	1,415	1,530		10,350
28	Chemicals and allied products	15,593	15,296	14,875	14,704	44.875	44,941	44,829	14 309	16,153	15,413	15,607	12,196	13,763	13,599	14,431		099"96
283,4	cept pigments Drugs, soap, and tollerites Petroleum and coal products	5,510 3,776 16,025	5,456 3,780 16,357	5,381	3,298	16,135	16,058 11,644 49,783	16,122	5,102 3,451 15 934	5,734 3,932 16,491	5,559 3,400 16,236	5,707 3,491 15,723	4,279 3,479 14,167	4,709 3,873 14,890	4,843 3,358 14,597	3,400	38, 38, 26,035 114 448	35,165 24,826 101,130
30	Rubber and plastics products,	4,125	7 0 17	3,850	3,962	11,886	11,419	12,206	3,728	4,227	3,915	4,133	3,573	3,930	3,707	4,031	27 503	27,894
23	All other nondurable goods industries	12,465	12,308	11,993	12,003	36,304	35,480	34,519	11,863	12,266	11,430	11,708	10, 107	10,908	1 ,295	10,438	и] 504	73,769
D C C																		

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'Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

Trading-day or classic-month variations.

The supplementary series are regroupings of the separate industry categories as follows.

The supplementary series are regroupings of the separate industry categories as follows.

Nonethold day or classic and an area of the separate industry categories and pottory, handtools, and hardware; household dappliances, radio and TV. ophthalbit & pools, watches, and clocks and miscellaneous personal goods.

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Supplia poods and antitation of categories and equipment and machine shops, electrical machinery (excluding household appliances, radio and TV, and electronic components), and the mondelense portions of shipbuilding and referse contractors in the following indistries or ordnare, commutation equipment, and server the parts, and ordnare companies and referse contractors in the following indistries ordnare, commutation equipment, and referse ordnare or ordnare or ordnare annually in the Ma-175. Shipments to rederal Government Agencies (Ormerly "Shipments of Defense-porter of the specific indistries in for the specific indistries.)

Table 2 MALKE OF MANUFACTURENS' NEW ORGERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES.

							(Million	Willions of tollars	T.e.									
				Season	Seasonally adjusted	pai						Not		seasonally adjusted	2			
			Monthly	hly			quarterly					Monthly					Year to	date
SIC	Industry	Tolv	tune	Var	Jores]	1	-	2		Last 4 mo	nonths		Last	4 months	a year ago		Year	rear
		1981 ^p	1981r	1981	1981	1661	lati	1.861	July	Jan.	Max ,481	Apr.11	July 1980	June 198 :	Man	4pril 1980	1	date 1985
	TOTALS											-	-					
	All manufacturing industries	173,095	170,913	169,340	168,584	508,837	494, 772	Atl. Bus	157,634	178. 14	168, 692	171 926 1/1	140,432	144.87	140,830	149,207	,179,982	054,878
	excluding transportation	152,303	151,856	144,247	144,886	486,085	443 887	Ç.,	1+0.+88	157,868	148, 54,	1.1 8.1.	7 7 %	134, 774 ,	127 2 19	131,178	746 611	940. 758
	unfilled orders	92,956	89,475	90, 182	89, 04.	268,697	1.5 mg.	2.3. 164	82,513	+3, ++1	88, 712	41,255	13.7.	77,285	71,084	180 81	624,417	556,864
	Durable goods industries	787.06	88,303	88,154	87,18	263,647	2 5, 383	216 8 8	80,13+	+3.28t '	87,080	+5,242	,	74,435	28 160	7> 913	611.718	>38.9114
	orders	76,075	72,661	73, 130	71, 457	217,748	215, 34	284, 384	484,484	76. 14-	71,802	74.127	1111.65	62,333	56 753	63. 439	508,075	452 483
	Nondurable goods industries	82,611	82,610	81.176	81,404	245,190	243,389	137, 931	77.520	64,734	80, 422.2	184 18	19, 403	75,437	1, 88	73.294	568,263	515,974
	Orders	16,881	16,814	17, 052	17 083	50,949	49,724	47,481	15,519	17,647	16,917	17,128	13,924	14,952	14,331	15 022	116,400	10, 381
	orders	65,730	65,796	54, 124	54.321	194,241	193,661	140 401	62,003	67.637	h4, 12	954 49	56.039	69,480	58,359	58 272	451,860	-11.593
	MARKET CATEGORIES																	
	Home goods and apparel	12,821 29,102	12,776	12, 983	12 328 29 075	37,187	36,744	34,894	11,761	13,168	27,832	12 133	25,932	11, deb. 27, 70b	26, 24	19, 522	84,244	75,330
	Automotive equipment	27,844	25,025	25.365	25, 606	75,446	78, 323	75,474	24,320	26.642	24,852	14, 559	8,857	7 7 7 7 7	21,083	24, 232	180,472	165,853
	and intermediate products	12,843	13,166	12,755	12 843	38,764	39,424	38,490	12,557	14,265	13,239	13,346	11,180	11, 722	11, 212	11.627	058,68	80.387
	intermediate products	76,312	75,479	76, 491	14. 909	227,079	221,355	218 614	69,375	77.740	76.185	76, 734	62,189	65.491	186,24	67,537	528,348	477,064
	SUPPLEMENTARY SERIES ²																	
	Household durable goods indus- tries. Capital goods industries. Nondefense.	5,635 30,537 25,069 5,468	5,625 28,186 23,230 4,956	5,119 29,248 23,865 5,383	5,603 28,699 24,723 3,976	16.347 86,133 71,818 14,315	16,412 86,096 70,468	15,001 81,974 69,540 12,334	5,013 26,568 22,515 4,053	5,845 29,537 25,090 4,447	4, 981 27, 903 22, 797 5, 106	2,636 29,301 24,979	4, 368 26, 899 21, 264 5, 635	4,571 26,948 22,785 -,163	4,439 23,080 19,273 3,807	4, 657 27, 482 22, 714	37,502 200,347 167,885 32,457	32, 705 188, 291 157, 728 30, 563
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33 331 331-5.9	Durable goods industries: Stone, clay, and glass Primary metals Blast furnaces, steel mills Nonferrous and other primary	4,206 12,431 6,460	4,259	4, 217 11, 809 6, 076	4,210 11,831 6,337	12,686 34,964 18,453	12,425 34,228 17,291	12, 095 37, 171 19, 174	4,126 10,431 5,377	4,602 11,561 6,106	4, 295 11, 802 5, 966	4.357 12.500 6.790	3,629	3,707	3,561 8.513 3,631	3,593	29,071 83,662 43,631	25,488 75,650 33,851
34 35 351 353	Fa	4,825 10,957 17,032 1,144	4,235 10,979 17,303 1,449	4,612 10,607 17,082 1,325	4,475 10,291 17,504 1,561	13,322 31,877 51,889 4,335	13, 746 31, 223 50, 334 4, 200	14,625 31,880 50,070 3,686	4,050 10,211 15,670 1,014	4,386 11,581 18,838 1,412	4,673 10,673 16,635 1,241	4,622 10,626 17,826 1,428	4,321 8,491 14,606 1898	4,296 9,152 15,596 714	4,406 8,915 13,149	4,776 9,425 12,674 782	32,444 74,118 121,226 9,403	34,941 65,980 103,952 6,998
354 356		3,600	3,856 754 1,335	3,523	3,706 838 1,571	11,085 2,333 4,526	10, 615 2, 701 4, 198	9,619 2,617 4,014	3,487	3,897	3,440 709	3,999	2,665	2.648 1,027 1,336	2,633	2,724 888 830	25,710 5,935 10,432	20,561 6,912 8,855

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND STRPELEMENTARY STRIFS-CONTINUED

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Industry					Seaso	Seasonally adjusted	ted						No	Not seasonally adjusted	ly adjuster	1 F			
Trightestry Trightestry Tright				Mons	thly			Quarterly					Month	1.9				Year to	to date
1981P 1981P 1981	Ú.	Industry	vlut	Tripp	May	April	11	-	1.0		*	honths		Last	4 months	a year ago		Year	Year
Problem Continued Contin			1981P	1981	1981	1981	1861	1981	1980	July 1981	June 1981	May 1981	Apr11 1981	July 1980	June 1980	May 1980	April 1980	date 1981	date 1980
Durable goods Industries—		INDUSTRY GROUPS AND INDUSTRIES																	
12,060 12,600 11,721 11,960 36,281 34,371 34,109 10,504 12,931 11,370 11,855 9,034 10,512 9,793 1,995		Durable goods industries															- ,		
Houseful appliants 1,956 1,883 1,112 1,124 1,125 1,252 1,569 1,590 1,990	cv	Electrical machinery	12,060	12,600	11, 721	11,960	36,281	34,371	34, 109	10,504	12,951	11.570	11.825	9,054	10,512	9. 793	11, 236	82,340	74,966
Professional Pro		industrial apparatus	1,996	1,895	2, 127		5,770	5, 798	5,742	1,699	2,011	2,059	1,930	1,553	1,864	1,655	2,246	13,801	13,282
Communication Full properties 3,136 3,137 3,13		Radio and TV	975	1,128	711		2,754	2,845	2,384	818	1,217	598	762	909	782	010	012	6,072	4,52
Transported components 2,331 2,544 2,535 2,435 2,535 2,445 2,4			3,609	3,951	3, 136		10,704	9,811	10, 127	3.031	3,771	3, 392	3,395	2,665	2,754	2,824	3 478	23,916	21,55
Attributed and all training and all tr			2,328	2,321	2,549		7,405	6,620	6,895	2,068	2,486	2,458	2,688	1,774	2,276	2, 121	2,397	16,820	16,25
Particular and all large Particular and all	0	Aircraft, missiles, and								004174	2		604 604	667.104	000.00	T 20 0 4 T	10,027	170,001	114,17
1.018 1.020 1.02		Shipbailding and wilitary	6,132	4,083	5,83	3,777	13,663	16,553	11,773	4,788	4,218	5, 160	4,281	6.514	5,613	4.428	7.941	33,523	39,442
4,420 4,333 4,293 3,914 12,540 12,330 12,159 4,011 4,663 4,165 3,891 3,311 3,937 3,533 8,386 8,348 8,342 8,773 25,563 3,586 24,879 8,015 8,018 8,580 9,111 6,992 7,443 7,045		fank vehicles	1,618	865	1,085	2,046	3,996	3,796	3,628	1,163	802	816	2,185	1,030	963	860	1, 154	8,844	7,578
8.586 8.448 8.342 8.773 25.563 35.586 24.679 8.015 8.418 8.580 9.111 6.962 7.443 7.015			4,420	4,333	4,293	3,914	12,540	12,330	12,159	4,011	4,683	4,165	3,891	3,311	3,937	3,553	3,487	28,852	26,043
		All other durable goods	8,586	8,448	8,342	8, 773	25,563	25,586	24,879		8,918	8,580	9,111	6,962	7,443	7,035	7,503	59,063	>2,705

Ppreliminary, 'Revised.

'Shapements and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for

Indirectary expendences are regenous of the separate industry categories as follows for the separate industry categories as follows for the separate industry categories as follows in formal cooks indictries—Household funding to a separate industry, and pottery, cutlery, handrools, and harbeare; household appliance, radio and TV; optalate goods, watches, and it is not never in mous presental goods.

Capital loweries-Computable to the previous producers' capital cools and the defense products (old series) categories, contact the control of

Table 3. VALUE OF MANTAL PROPERT PROFILED ORDERS FOR INDUSTRY ROPES, "WANT CATEORERS, IND SUPELEMENTALY SPICES

ullions of follars.

							SHOTTING	sarrior to										
					Sea , 2nall,	lls altusted	-						Vo.		seasonally adjusted			
			Monthely	Maly				quarterly						Vonthly	14			
SIC	Industry							A)			1 7 4 7 1	Suths		last	- onths	a vear ago	
		leg1p	ly81	Nav [98]	1897	*	- <u>-</u>	1987		1 +80	1981 1981	Func 1981	VSA ,481	1961	July 1980	Jun. 1982	Man 1980	Vr.r. 1980
	TOTALS											1						
	All manufacturing industries	5.18,743	825,918	326,5 18	324, 1144	323 605	314, 72+	315, 23	\$ 40, 494	3,3,523	3, 1, 4, 4	Q++, d.,	3.8,411	328,847 3	304. RM2	306,856	309,914	315.793
	excluding transportation	. 11.195	219,433	81 4 61 F	2.18.750	207,415	n ser	7	1+7,405	7	2 de .	711. 45	2111,732	212, 160 1	199,357	198,947	202,291	237,290
	Durable goods industries	117,536	114,477	314 454	313,400	312, 298	3118, 152.7	3 4, 133	245,75	÷ ;	1,16 . 1,	3114 4 5	310, 736	317,342 2	244, 272	240 68	298, 584	304,041
	Nondurable goods industries	11,.119	11,441	20 11	11,244	11, 245	10,413	11,84	1.0 744	11.663	11,	11,+'8	11,675	11.595	11, 5911	1), 788	11,230	111, 752
	WAHKET CATEGORIES																	
	Home goods and apparel		+ 854	4, 019	. 782	4 20 4	3, 998	86	*, 211	4, 74.7	- 552 .	484	4. 710	4,8,7	4.318	3000	4,359	4. 528
	Automotive equipment	193.533	190,926	191, 940	191, 739	191.324	186,876	183,272	177 89n	178 +37	192 178	141 - 189	192 395	1+3,134 1	179,421	177.928	178.366	180,618
	and intermediate products	17,748	17,647	17, 137	17, 14	5 7 6 3	1, 1	64. 3	67,	17, 473	1,844	1, 805	17,471	17.437	17 78:	17.9.3	18, 192	18,919
	Intermediate products	117.569	112,531	112, 772	110,978	11 2 36	1.2.1	111 271	lah +3.	12 377	111.3 11	111. 6.05	113, 2 1, 1	113 423	, 18 33×	164,66,	18 497	112,628
	SUPPLEMENTARY SERVIES?								~									
	Household duruble goods indus- tries. Optical goods industries. Nondefense. Defense?	1,718	1, 1; 221,984 147,788 74,696	3 -111 222: -18 148 mm 73, 8-2	3 484 221,248 148,338 72,410	3, 528 220, 323 147, 434 72, 398	2.4 4 216, 128 147, 173 58, 3.5	3. 84 214, 44.3 14.7 340 67 113	5.22% 2.16. 584 146. 477 6.3.207	3 64 2 04, 106 147, 860 1 7, 101 ;	74,400 P	147 341	3 544 282, 929 148 543 74 189	3, 758 222, 892 49, 794 73, 099	3.312 205.976 147.605 62.371	3, 325 206, 278 146, 349 . 3, 429	3.378 2.15.352 147.074 ,9.278	3,435
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33	Durable goods industries Stone, clay, and glass Primary metals Blast furmaces, steel mills.,	28,995	10.897	2 240 29, 78,1	2,204, 9,39,3	2,289 28,9 · 15,925	2 46.1	28,426	2.031	2.8h3 29,67h 15,859	17,154	2.351	2,341 30,284 17,482	2, 325 30, 730	2,590	25, 960	2,761	2,827 29,492 15,605
34 35	Pa	8,525	30,362	8, 712	8, 72 24 954 75 273	8 .57 30 134 72 nd?	4, 008 30, 189 74, 346	8 475 14, 800	3.744	8.843 31 34 73.861	30,84	87,509	8, 912.	8,922	8 305 30, 725 72 947	30, 485	8,728 31,055	31,269
353	Engines and turbing and	18,089	18,474	18	18 438	18.241		17,804	17,825	18 625	17.912	18.142	18, 218	340	105 21			18,344
354	material-handling equipment. Metalworking sachinery	11.246 6,350	11,989	13, 448	10,243 h,866	7, 33,	5.22.7	8,141	X, 052 7, 486	8,810	1157	13,489 0,470 30,430	0,043	10,507	8, 032	7,938	8,356	8,632
Ser	See footnotes at ond of table.	***************************************			707	2, 304	177 0	107'0	676.6	, 30 +	7.0.0	7	0, 369 4	0,031	100,0	0 00 m	2,092	97/ 19

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

					Seasona	Seasonally adjusted	p						Not	Not seasonally adjusted	adjusted	1		
			Non	Monthly				Quarterly						Monthly	110			
SIC	Industry group	July	June	Mav	Apr.	-	VI	111	1	-		Last 4 months	onths		La	Last 4 months a year	a year ago	
		1981 ^p	1981 ^r	1981	1981	1981	1980	1980	1980	1980	Tuly 1981	June 1981	May 1981	Apr. 1981	July 1980	June 1980	Мау 1980	Apr. 1980
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries																	
361,.	Electrical machinery	50,421	50,124	49, 207	49,082	48,494	47, 225	45,819	15,341	44.505	54, , 367	50,257	49,637	49,403	45,387	45,483	45,685	45,930
	industrial apparatus		8,392		8.234	8,351		7,905	8,027		8,459	8,439	8,522		8,063	8,066	8,123	8, 199
	Radio and TV	413	378	189	777	415	346	451	919	389	707	388	105	349	411	426	317	292
	Communication equipment	27,753	27,542		26.870	26.345		23,863	22,802		27,461	27,407	27, 117		22,870	22, 598	22.912	22,993
	Heatranic components	12,181	12,207		11.978	11, 733		12,135	12,695		12,339	12,39,1	12,225		12.531	12,873	12,932	13,040
37	Transportation equipment	117,549	115,515	116,900	115,934	116, 198	113,043	114, >13	108,540	105,682	115,566	114,300	116,679		110, 05	107,909	107,623	108,503
	Shankilding and military	92,092	90,504	91,319	90, 249	91.299	88, 371	90,466	85.924	80,345	90,551	90,015	91 055	90 716	88,020	85,408	84,134	84,033
	tank vehicles	17,313	16,953	17.279	17,349	10.478	16,087	15, 421	13,490	13.549	16.956	16.975	17 399	17,742	13, .19	13.513	13, 541	13,861
	products	7,211	7,056	6,982	6,897	7,012	6,987	6,863	5,944	7,064	7,264	7.110	6,980	6,963	6,929	264 9	6,972	7,051
	Industries	4.876	4.955	7, 990	5.003	4.915	4,267	4,050	4,244	4,809	5.232	5,119	5,187	5,128	4,432	4,373	4,911	4.714
					-		-		Western the second	-						44		ı

"Revised,

Supments and one orders are the totals for the period and are adjusted for trading-day and calendar-worth variations untilled orders and inventories are of the end of the period and are not adjusted for tradingday or advolutational vortations of the separate industry categories as follows

The suplamentary series are responsibles of the separate industry categories as follows

Household durable goods industries—Household furniture: sitchen articles and pottery, curlery, handrools, and hardware, household appliances, radio and IV. ophthalere goods, watches, and clocks, and clocks, and clocks.

The last are comparable to force multiply in the Weilly. Supered to interest Connectivity Supered Supe Capital goods industries-Comparable to the previous producers' capital goods and the defense products rold series) categories.

When frees products-adeltherry, weept electrical (excluding farm such they applement and entering and entering and entering and electronic components), the modelicense portions of slipbulidates and espairate and entering an entering an ente

TOOK 4. AND OF MACHIEFS, INCREDED, BE INDICTOR SOLD, WEED AND SECOND AND ASSESSMENT OF THE SECON

"illions of sollars!

							TILLIANS	d lollars										
					, 63× , f.d.	easonally adjusted	1						You	seas nally	altusted			
			World	Youthly.			7.5	parterly						Wenthly	100			
) I	Industry	E	lute	100	100		-	:		-		Last 4 %o	wonths		Last	+ months	a vear ago	
		19×1P	last	4 4 4 7	lexi	1481	144	97.	= :	- £	1,1,1 19% IP	J.ner 1981	Man likel	Apr	1980	June 19×0	19.80	Apr 19×0
	TOTALS																	
	All manufacturing industries	272,207	209,709	150 11. 1912	40, ,54.	. 60 5. +	. 52, 44.1	, , , , , , , , , , , , , , , , , , ,	, h,	11.4.6	271,335	. N 28	71,404	7	. 193	56,910	£ 1	207,167
	cluding transportation	, 33, 358	231,081	230 833	106	2. ×, +1.1	1 169	7.1 98.1	P. 1	,	23.,966	. 31,971	. 53,131	2 11.154	222 302	250	.24,348	026.77
	unfilled orders	185,053	183,036	181 819	181,613	14 7.	1,4,56	15 21	1,5,5,4	, 71. Ful	185,857	184,047	154,471	18.5.74	1.4 572	17, 196	1751	173 -33
	(arable goods andustries	180,735	178,676	177 635	177.1.3	11	171,603	120,103	164. 69] * h , "] ,	180,553	119,714	17+,939	179.041	170 144	173,744	17., 153	171,178
	orders	164,559	162,821	101,58.	161,418	15), 223	155,-13	153,788	151,269	150,11.	164,881	163,814	155,733	101,749	154,572	154.38-	155,240	15 4 749
	Nondurable goods industries	91,472	91,033	41,5,3	96, 583	467,00	80, 577	10,07	100	r r	96,782	90,518	41,55	40,573	×675	80.100	49. 64	7.47
	orders goods with untilled	767, 77	21,215	70,127	20,19.	790,047	19,316	7		19, 41	20,976	20,833	7. 5. F. Y.	.0.54.4	19,709	20.1.4	19 495	14 604
	WARRET CATHOORIES																	
	Mome goods and apparel	1,809	21,416	32, 491	11,427	11, 231	1, 554	2 G	.4.798	*	31,903	32,510	3. 149	21,836	.1,156	30,340	.1.653	.1 1.8
	except automotive	73,565	73,740	72,797	11,666	11,775	89,905 11,872	11,000	167	1.489	73,549	73,43.	73,455	7 474	68,733	67,369	57,875	06,917
	Construction materials, supplies, and intermediate products	.2,663	.2,393	22,055	71,656	.1,602	.1.795	608.0.	. 3,444	21,193	12,567	22,544	647		.0.923		2	21.839
	Other materials, supplies, and intermediate products	109,484	108,478	108,264	107,783	107,566	102,370	102,787	103.380	100,715	109,795	108,801	1.96.197			103, 35	154,135	10 3 023
	SUPPLEMENTARY SERIES																	
	Household durable goods indus- tries. Capital goods industries. Nondefense.	10,401 83,067 70,365 12,702	10,250 82,376 69,676 12,700	10, 323 81, 608 64, 335 12, 273	10,360 41,266 69,100	10,1 55 80,456 58,473 111.984	9,492 78,445 67,234 11,621	77,469	15,198	10,15x 72,363 64,118 9,246	10,612 84,251 70,288 12,963	10,598 82,777 69,941 12,836	10,710	10,523 82,074 69,877 12,197,	10.264 75.688 55.449	10,542 75,811 65,950 9.861	10,642 75,063 65,959 9,704	13,519 74,594 65,153
	INDUSTRY GROUPS AND INDUSTRIES																	
32 322 333	Durable goods industries Stone, clay, and glass Glass containers	6,646	66,599	609	595	60, 398	6,145	584	6,189	6,034	599	6,681	6,732	6,627	6,175	6,266	6,332	6,350
333-6,	_	12,534	12,169	12,111	12, 362	12,722	11,844	12,152	12,722	12,309	12,471	12,108	12,051	23, 312	12,519	12,646	12,594	22, 522 12,108
9 34 341	Fat	10,068	9,819	9,686	9,690	9,563	8,802	8,564 19,395	8,484	8,577	10,128	9,888	9,812	9,852	19,892	8,543	8,656	8,758
351 351 352	Machinery, except electrical Engines and turbines	1,560 41,015 2,473 2,772	1,571	1,585	1,559 39,705 2,408 2,766	1,637	1,744 39,189 2,474 2,774	1,578 39,726 2,457 3,127	1,732 39,514 2,522 3,148	1,810 38,297 2,654 3,075	1,677 40,845 2,427 2,727	1,753 40,604 2,455 2,793	1,799	1,799	1,766 39,723 2,463 3,134	1,933 39,771 2,549 3,195	2,089	2.1+5 39.717 2.730 3.285
354	material-banding equipment. Wetalworking machinery General industrial machinery.	8,960 2,728 3,794	8,789	8,653 2,660 3,670	8,566 2,645 3,638	8,469	8,446	8,650 2,855 3,627	8,766 2,833 3,637	8,416	8,924 2,722 3,802	8,806 2,644 3,786	8,714	2,668	8,703	8,784	3,748	3,657
See	See footnotes at end of table.																	

Table 4. VALUE OF MANUFACTURERS INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES.-CONTINUED

				Apr. 1980			.4,552	4,296	1,350	8,080	34,247	19,162	1,971	8,959	6,135	14,294	20,837	2,051	1.747	11.435	5,51.	7.837	2,696	3,065	19,100	6,473	7.950	- 2	0,00	
			months a year ago	May 1980			34,784	4,348	1,398	8,199	34,070	19,580	2,033	9.114	6,248	14,159	20,367	2,0.7	1,601	11,196	3,397	7,983	2,787	3,670	19,173	6,53.	8,315	0.89	2000	
			Last 4 month	June 1980			24,612	4,298	1,371	6,193	34,054	20,095	2,122	9,15-	6,338	14,032	20,191	1,997	1,739	10,970	3, 339	8,060	8.8	3,088	18,937	6,580	8,525	6.631	2,004	
and and	anina	Monthly	La	July 1980			24,504	4,293	1,383	8,388	34,218	20,918	2,219	9,121	2,194	13,932	20,811	1,997	1,719	11,758	5,184	7,897	2,817	2,982	18,7,33	96-19	8,803	707 5	10000	
Not concount	- 1	Non		Apr. 1981			25,966	4,475	1,466	9,013	38,460	24,482	.,596	9,723	6,812	1~,566	21,620	7,368	1,795	11,765	3,688	8,404	3,018	3,146	16,691	6,716	9,581	2 766	21100	
9			months	May 1981			26,111	4,520	1,571	4,798	38,478	24,566	2,726.	9,854	6,941	14,677	21,276	95	1.723	11,672	5,592	8,475	3,050	3,173	20,011	0,880	10,204	2000	21100	
			Last 4	June 1981			26,173	4,526	1,561	4,871	38,257	24,755	2,621	9,771	6,924	14,618	20,774	2,256	1,559	11,509	6,739	8,541	3,072	3,157	19,902	6,822	9,761	5,660		
				July 1981P			26,096	2,017	1,620	4,881	38,429	25,210	2,514	9,612	6,827	14,644	21,098	2,140	1,559	12,035	5,265	8,529	3,047	3,147	70,002	6,878	9,617	5.655		
				1980			23,788	4,142	1,269	7,867	33,413	18,638	1,922	8,727	5,988	14,040	-1,377	2,051	1,678	12,092	3,487	7,600	2,550	3,007	18,546	6,275	7,966	250	2011	
rs)			:	1980			24,145	4,263	1,309	8,178	34,429	20,160	2,130	8,994	6,263	13,923	21,765	2,005	1.840	11,885	3,507	7,866	2,779	2,993	19,211	6,714	8,711	5 603	2001	
s of dolla		Quarterly	E	1980			24,350	4,222	1,292	4,450	35,442	21,835	2,105	6,037	6,309	14,175	77, 368	2,138	2,388	12,480	3,628	7,818	2,894	2,953	18,478	6,200	8,805	5 533	3,131	
ed (Millions			A.L	1980			24,383	4,163	1,311	8,630	36,810	22,918	2,265	9,281	6,474	14,046	22,325	2,471	2,055	12,428	3,507	7,798	2,794	3.032	18, 489	6,244	8,240	5 270	21212	
lly adjusted				1981			75.057	4,263	1,444	4,560	38,111	24,001	2,612	9,380	6,593	14,213	22,237	2,272	1,792	12,476	3,689	8,286	2,972	3,126	19,488	6,693	9,885	07	21.730	
Seasonally			1	1981			25,589	4,402	1,466	4,773	38,305	24,266	2,647	9,581	6,748	14,352	22,055	2,303	1,734	12,411	5,643	8,246	2,976	3,059	19,490	6,719	9,932	6 643	10010	
			Man	1981		~ -	25,457	4,428	1,481	8,835	38,427	24,421	2,724	9,645	6,839	14,568	22,114	2,216	1,787	12,551	3,699	8,224	2,983	3.037	20,029	0,880	10,278	5 616	7,040	
		Monthly	Trans	1981r		-	25,689	4,488	1,492	4,795	38,628	24,820	2,636	9,603	6,842	14,508	21,862	2,267	1,648	12,456	3,570	8,332	3,018	3,059	20,218	6,961	9,839	5.634		
				1981P			25,919	4,556	1,548	4,843	38,849	25,033	2,399	9,536	6,814	14,694	22,135	2,197	1,770	12,721	3,669	8,421	3,036	3,116	20,123	6,871	9,621	5 695	1	
			Industry		INDUSTRY GROUPS AND INDUSTRIES	Turuble g ds industries	Electrical machinery		Radio and TV	Communication equipment	Transportation equipment	Aircraft, missiles, and parts	shipbuilding and military tack vehicles	products	Scientific and engineering	All other durable goods	Nondurable goods industries Food and kindred products	Meat products	Beverages		Tobacco products	Paper and allied products,	Pulp, paper, etc	Vil other paper containers	Chemicals and allied products.	ptkments	Drugs, soap, and tolletries Petroleum and coal products	Rubber and plastics products,		All other nendurable cooks
			Lis				361.2	363	365	365	37	372,6	3795	0	381-4	2 5 5 E	2.0	201	207	203-6,9	21	20	261-3	262	828		29 5, 4	30	23	

Shipments and new orders are the totals for the period and are adjusted for tradaga-day and calendar-mouth variations, untilled orders, and inventories are in the end of the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period and are not assume that the period assume that the period and are not assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period assume that the period as the period as a period as relationship verses are recordings of the separate industry categories as follows:
Fine applicantary series are recordings of the separate industry categories as follows:
Fine applicantary series are recordings of the separate industry categories as follows:
Fine applicances of separate industries and postery, cuttery, handtoots, and hardware, household applicances from and it, opinicaling goods, watches, and clocks and "Revised.

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ToffALS All manufacturing industries	272,207	269,709	219, 241	267, 5016	200, 1.4		256,535		51,486	71,335 .	71,.28	71,609	20,134		256,410	41 × 41 ×	247,167
urable goods industries	190,735	178,675	177,135,1	177,123	17, 224	171, 413	11, 11, 11, 11, 11, 11, 11, 11, 11, 11,	1,174	ne, 715 1	6,084	74,724	74,254	12.00	17.,144	7444		1-1,1-x
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Name lectrical machinery	21,015	40,342	46, 70	39, 755	34,618		39,726		38,247	5+8,14	40,004	40,610	40,226		39,771	40,083	39,717
fransportation equipment	98,849	36,6,6	30,420	18, 85	3м, 111		15, 240.5		31,41	38,4.9	16.18	1 7	38,460		34,054	34,020	34,24
All other durable goods industries	14,694	14,508	14,568	14, 352	14,113		14,17		· · · · · · · · · · · · · · · · · · ·	14,644	7 j	7 1	14,500		4,154	9,114	14,294
endurable goods industries	91,472	91,033	91,62	14 491	257. 34		86, 57 Z		11.11	90,782	90,518	-1,+50	90,523	_	×6, 156	86,398	85,989
Petr low and coal products	1,621	466 6	10,278	6,433	14, KWS		5 4 X		6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	9,617	19,761	17,204	14,041		18,437 8,525	19,173	7,950
Aubber and plastics products n.e.C	56,(33	55,185	55,71	7(E',	55,345		54,1.8		2,51	5,655	55,144	15,724	5,788		5,631	52,490	52,829
WATERIALS AND SUPPLIES						i											
All manufacturing industries	93,714	y. , 127	91,415	92,713	7 17	45 ° 18	* * * * * * * * * * * * * * * * * * *	84 to 8	, x , x	y 3, 344	9.,161	92,013	92,4+5	89,457	44,481	911,433	277,00
urable goods industries	56,950	55,816	55,282	15, X 17	2445	X 1X 2	53,587	54,434	27.4.25	56,867	55,864	55,338	55,540	14,402	54, 452	55,058	05,271
Pit any metals	1,177	H, Na. y	8,545	9,13	4,401	, +24 , +24	0 0 0	,	1 1	4,016	6,8,8	N, 574	8,8318	9,131	Z, 326 R, 996	2, 44h 8, 8hn	8,408
Exhibitation motals,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11,195	7,272	7,277	1,31,	1, 44.30	222	18 - 1	5:		7,619	7, 540	7,350	7,414	7,383	7,500	7,881	2,905
Electrical machinery	7,596	7,561	7,556	2,33	177	7	27.		7	7,805	7,743	7,718	7,435	7,557	7,483	7,535	7,529
Transportation equipment	20,437	9,762	675 6	9,527	4,544	1,436	4 C C C	4 00	4,1.47	9,923	9,710	4,544	9,615	8,439	8,803	9,180	9,219
All other durable grouts industrifes	5,638	5,564	5,856	2,585	2,520	5, 147	5,547	5,457	5, 586	5,64.2	5,457	7,43	5,480	5,447	2,822	2,652	5,462
ondurable goods in lustries	36,764	36, 311	36,673	34, 551	36,412	35,572	35,114	35, 334.	34,451	36,477	16,297	34,173	36,455	35,355	35,229	35, 375	35,503
Petrolcum and coal products	565*:	1,581	2,531	2,482	, d	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2, 174	2,174	, ,	10 . Co	7,970	255.0	5,423	7,397	2,383	2,845	7,739
Rubber and playtic, products, n.e.c.	2,303	2,345	2,348	2,404	2, 473	57.44	2,195	2	in it	1,361	1,57	2,353	2, 383	2,262	2,350	2,402	2,401
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The state of the s	107,04	31, 370	31, 40,	20 . 67	4 , 100	4	Day 102	1 100 .	87,178	196/146	96,116	47,586	45, 718	X4, 743	89,134	984,486	89,140
Stone, clay and glass products	974	676	1026	435	433	, 15x	202	, 512 545	x 2 x x	471	30,00	N 557	1,005	75,850	75,360 - 892	893	75,225
Friedry metals.	9,339	9,107	7.1.7	8,958	8,451,	1, 4860	666	5,436	5, 104	7,463	9,122	4,222	8,992	A,415	8,440	8,425	8,230
Nonelectrical machiners	18,268	17,878	18,000	17,671	17,844	17,556	17,791	17,757	17,542	17,955	17,789	18,149	17,867	17,599	17,730	18,072	17,974
Ricetrical machinery	13,431	13,290	13,098	13,136	12,893	12,452	12,116;	11,828	11,541	13,386	13,375	13, 300	13,337	11,957	11,900	11,905	11,815
Instruments and related products	4, 2.77	4,176	4,169	4, 148	451,45	4,064	3, ×62	3,420	3, 540	4,141	1,	4,22h	4,204	4,053	3,949	4,042	3,852
ondurable goods industries	14,484	14,607	14.979	14.799	14.782	16.107	13 457	13.848	000 CH 21	16.561	7,508	15,003	17. Min.	3,343	3, 333	17, 07,8	12 035
Chemicals and allied products	2,681	2,715	2,714	2,647	2,740	2,508	2,568	2,649;	2,650	2,661	:,662	2,723	2,672	2,533	2,605	2,635	2,629
Rubber and plastics products, n.e.c	1,083	1,034	1,055	1,064	1,000	412	406 7	88h	487	1,456	1,013	1,033	1,044	2,513	2,494	927	2, 393
All other mendurable goods insustries	8,166	8,207	8, 30n	8, 217	м, 310	8,034	7,858	7,837	7,8811	8,212	8,165	8, 333	8,221	7,866	7,805	7,998	7,938
All ranulacturing industries	81,792	81,206	80, 393	79,192	79,252	76,557	77,488	660*22	74,521	31,235	81,951	82,010	80,433	77,020	77,895	78,299	77,233
Stone, clay, and glass products	41,568	41,091	40,420	40,265	40,149	39,860	39,885	39,634	38,431	11,471	+2,238	42,126	41,650	39,892	40,732	41,354	40,082
Primary metals	5,536	5,378	5,311	5,309	5,288	5,092	5,023	5,073	5,292	5,460	5,467	5,481	5,512	5,033	5,156	5,392	5,484
Nonelectrical machinery	4,814	4,815	11 001	10,043	4,577	4,727	4,712	4,753	4,604	4,766	4,888	4,871	4,819	4,712	4,629	4,424	698.47
Electrical machinery	4,892	4,818	4,803	4,876	4,824	4,702	4,855	4,981	4,872	4,905	5,055	5,093	4,993	066.7	5,229	5,344	5, 208
Transportation equipment	3,706	3,844	3,771	3,871	3,917	4,072	4,012	3,931	3,846	3,669	3,885	3,860	3,863	3,976	3,967	4,012	3,983
All other durable goods industries	5,520	5,413	5,276	5,220	5,203	5,348	5,303	5,122	2,131	5,470	5,639	5,627	5,556	5,140	5,383	5,370	5,399
chemicals and allied products	40,224	40,115	39,973	38,927	39,103	36,697	37,603	37,465	36,090	39,764	39,713	39,884	38,753	37,128	37,163	34,945	36,551
Petroleum and coal products	4,472	4,761	4,853	4,579	4,685	3,413	3,857	4,056	3,596	4,257	4,521	4,648	4,213	3,860	3,856	3,660	3,413
All other nondurable goods industries	24,080	23,587	2,213	23,151	2,159	22,854	2,240	2,381	2,415	2,138	2,277	2,320	2,339	2,351	2,401	2,561	21,732
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Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

			Pe	ercent chang	ge				${\tt Revisions}^{2}$	
Item and industry group	Mo	onth-to-mont	h	Avera	ge monthly	rate of cha	nge 1	Year	Average	monthly
tem and findstry group	June 1981- July 1981	May 1981- June 1981	Apr. 1981- May 1981	Second quarter 1981	First quarter 1981	Fourth quarter 1980	Aug. 1980 through July 1981	ago July 1980	July 1980 through June 1981	July 1976-1980
Shipments:										
All manufacturing industries	-0.7	+2.4	0 0	+1.1	+0 4	+1.4	+1 0	_	0.3	0.3
Durable goods industries	-1.5	+2.4	+0.4	+1 4	+0.6	+1.5	+1.2	0.5	0.4	0.5
Nondurable goods industries	+0.1	+2.3	-0.4	+0 8	+0.2	+1 3	+0.9	0.8	0.4	0.8
Inventories:										
All manufacturing industries	+0.9	+0 2	+0 7	+0.4	+1.1	+0.1	+0.5	0.2	0 2	0.1
New Orders:										
All manufacturing industries	+1 3	+0.9	+0.5	+0 7	+0 1	+1 5	+0.9	0.3	0.3	0.6
Durable goods industries	+2.5	+0 2	+1 1	+0.6	+0.1	+1.8	+1.0	1.0	0.6	1.0
Nondurable goods industries	0.0	+1.8	-0.3	+0.8	+0.1	+1 3	+0 9	0.4	0 4	0.6
Unfilled orders:										
Durable goods industries	+1 0	-0 2	+0.5	+0.2	+0.4	+0 5	+0.5	0.1	0.1	0.2

⁻ Represents zero

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entoriess	hipments ra	tio	Unfil		-shipments backlog)	ratio ¹
	July 1981 ^p	June 1981 ^r	May 1981	Apr. 1981	July 1981 ^p	June 1981	May 1981	Apr. 1981
All manufacturing industries	1.60	1.57	1.61	1.60	3.65	3.62	3.69	3.69
Durable goods industries. Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical Electrical machinery. Transportation equipment Instruments and related products.	2.07 1.57 1.99 1.91 2.39 2.20 2.07 2.24	2.01 1.57 1.98 1.89 2.33 2.20 1.89 2.26	2.05 1.56 1.96 1.87 2.39 2.20 2.01 2.29	2.05 1.49 2.00 1.89 2.36 2.25 2.02 2.38	4.35 0.61 2.41 3.19 4.75 4.29 10.87 1.69	4.30 0.63 2.42 3.10 4.72 4.29 10.16 1.66	4.40 0.61 2.46 3.07 4.86 4.24 11.11 1.66	4.41 0.58 2.49 3.12 4.84 4.32 11.07
Nondurable goods industries. Food and kindred products. Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and plasties products, n.e.	1.10 0.98 3.00 1.52 1.29 1.29 0.60 1.38	1.10 0.96 3.09 1.48 1.30 1.32 0.61	1.13 1.01 3.58 1.51 1.28 1.35 0.63 1.46	1.11 0.97 3.33 1.56 1.26 1.33 0.62 1.43	0.65 (x) (x) (NA) (NA) (X) (X)	0.68 (X) (X) (NA) (NA) (NA) (X) (X)	0.69 (X) (X) (NA) (NA) (X) (X)	0.67 (x) (x) (NA) (NA) (x) (x) (x)

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey provides broad-based monthly statistical data on economic conditions in the domestic manufacturing sector. It is designed to measure current industrial activity and to provide an indication of future trends. The data are used extensively by the executive branch of the Government in developing economic, fiscal, and monetary policy; by the Bureau of Economic Analysis (BEA) as components of the gross national product estimates; and by trade associations, corporate economists, and other members of the business community as an analytical tool in their assessment of the current and future economic condition of the country.

The M3 shipments and inventory data are comparable to the totals published in the Annual Survey of Manufactures (ASM). The ASM is a sample survey of approximately 70,000 manufacturing establishments drawn from a 5-year census of manufactures universe of about 350,000 manufacturing establishments. In the ASM, each manufacturing location reports data on value of shipments, beginning and end-of-year inventories, as well as various other economic variables.

The monthly M3 estimates through 1980 are based on information obtained from approximately 4,500 reporting units and include most manufacturing companies with 1,000 or more employees. In addition, selected smaller companies are included to strengthen the sample coverage in individual industry categories. For firms which operate in a single M3 industry category, the reporting unit typically comprises all operations of the company. At the request of the Census Bureau, most large, diversified companies file separate reports for divisions which operate in different industrial areas.

Each company or reporting unit of a company in the survey is classified into 1 of 79 industry categories for which separate estimates are made based on the major activity of the reporting unit. Some reporting units include industry activities outside the M3 category in which they are classified. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category.

The M3 series is periodically benchmarked to the Census of Manufactures and the ASM for shipments and inventories. The most recent benchmark included data for 1977 and 1978. Since benchmark data for unfilled orders are not available, levels are based upon the ratio of unfilled orders to shipments of reporting companies. In the 1977-1978 benchmark report, unfilled orders levels were revalued based on unfilled orders to shipments ratios of reporting companies in the monthly M3 survey; the MA-300, a one-time annual supplemental survey of multi-establishment companies; and the ASM for single-establishment companies.

MONTHLY ESTIMATING PROCEDURE

The monthly estimates of shipments, unfilled orders, and total inventories are derived for each industry category by

multiplying the industry estimate for the previous month by the percentage change from the previous month for companies reporting in the current month.

Though collected as a separate item, new orders are not calculated according to the standard ratio-estimate procedure. The reason for this is that not all companies report new orders and some that do report this item limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. New orders are, therefore, computed by adjusting the current month's shipments by the change in the backlog of unfilled orders. (New orders equal current month shipments plus current month unfilled orders minus prior month unfilled orders.) Thus, the estimate of new orders includes orders that are received and filled in the same month as well as new orders that have not yet been filled. Also included are the effects of cancellations and modifications on previously reported orders.

SEASONAL ADJUSTMENT

The monthly data on shipments, inventories, and unfilled orders are adjusted for seasonality at the most detailed level tabulated in the survey, using the X-11 variant of the Census Bureau's seasonal adjustment program. Data from January 1958 through December 1980 are included in the calculations of the factors used in this publication.

Seasonally adjusted industry aggregates are derived by adding seasonally adjusted components rather than by direct seasonal adjustment of the aggregates. New orders data are not independently seasonally adjusted but are derived at the most detailed levels from the seasonally adjusted shipments and the change in the seasonally adjusted unfilled orders and then similarly aggregated.

EXPLANATION OF TERMS

Value of Shipments—The shipments estimates published in the monthly survey are equivalent to value of shipments as reported in the ASM which are net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments is the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the shipbuilding industry, the value of shipments in a given time period varies considerably from the value of work done because of the long lead time between the input of the materials and labor and the delivery of the completed ship. For this industry and for aircraft and missile producers working under cost-plus contracts, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and M3 industry

category levels since the products of some four-digit SIC industries are used as materials by other industries within the same industry aggregate. The significance of the duplication within the specific M3 industry categories varies depending on their four-digit industry composition. It is most pronounced in a few highly integrated industry areas, such as primary metals and motor vehicles and parts.

For multiunit companies, the M3 reports received each month typically are not plant reports but are company or divisional level reports that encompass groups of plants. The actual sales reported are usually net sales and receipts from customers and exclude the duplication of interplant transfers. The reported sales are used to calculate month-to-month changes which bring forward the plant-based shipments for the industry category as estimated in the ASM.

Inventories—In the monthly survey and in the ASM, respondents are asked to report their inventories at book values. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of aggregate inventories for all plants in an industry is not precise.

There are also some inconsistencies between the M3 company or divisional reported inventory levels as compared with the ASM establishment reported levels. The change in the value of inventories, month-to-month as well as year-to-year, is considered to have greater significance and reliability.

Inventory data are requested from respondents by stage of fabrication, i.e., finished goods, work in process, and raw materials and supplies. However, the quality of these data is limited due to lower response rates and the inclusion of the same type of inventory under different stages of fabrication in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations received during the month on orders previously reported. They include orders received and filled during the month as well as orders received for future delivery. They also include the net sales value of contract changes which increase or decrease the sales value of the unfilled orders to which they relate. Orders are defined to include only those supported by binding legal documents such as signed contracts, letters of award, or letters of intent, although in some industries this definition may not be strictly applicable. In the case of letters of intent, the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included.

Unfilled orders include orders as defined above that have not been reflected as shipments. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net shipments.



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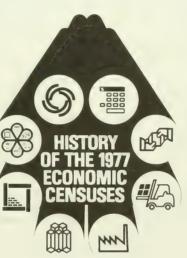
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Manufacturers' Shipments, Inventories, and Orders

AUGUST 1981

M3-1 (81)-8 For Wire Transmission 3:00 P.M. E.D.T. Thursday, October 1, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods decreased in August \$3.2 billion or 1.9 percent to \$169.2 billion, the Department of Commerce, Bureau of the Census reported today. This is the first decline in orders at the all manufacturing level since the 0.9 percent decline in January. The order increases from February through June were all less than 1 percent.

New orders for durable goods declined \$3.1 billion or 3.5 percent in August to \$86.3 billion, revised from the earlier reported 2.5 percent decline. The nondurable goods industries showed almost no change from July. The largest declines in durable goods new orders were reported by aircraft, primary metals, and fabricated metals producers. In the aircraft industry, where new orders are volatile on a month-to-month basis, new orders were down \$0.9 billion or 14.4 percent to \$5.2 billion. New orders for aircraft so far this year have averaged \$5.2 billion per month as compared to a \$5.8 billion average for January through August of 1980.

The decline in August new orders for fabricated metal products was estimated at \$1.0 billion, down 9.0 percent from July to \$9.8 billion. This is the largest decrease in that category since a 9.0 percent decline in March 1980. In the primary metals category, both steel and nonferrous metal manufacturers reported declines. New orders for steel were down \$0.4 billion or 5.8 percent to \$6.1 billion, while orders for nonferrous products were off \$0.3 billion or 6.9 percent to \$4.5 billion.

New orders for nondefense capital goods were valued at \$24.2 billion, unchanged from July. A 6.8 percent increase in the nonelectrical machinery component was offset by declines in most of the other categories. New orders of defense capital goods increased \$0.3 billion or 6.3 percent to \$5.8 billion, with all components except complete aircraft increasing.

Shipments of manufactured goods in August declined \$1.4 billion or 0.8 percent to \$168.7 billion, following an equal decline in July of \$1.4 billion or 0.8 percent. The August declines were widespread. Within the durable goods sector, most of the industries showed declines of \$0.1 billion to \$0.2 billion each. The only significant increase in durable goods shipments

occurred in the aircraft industry, where deliveries were up \$0.4 billion or 8.4 percent to \$4.8 billion.

Shipments of nondurable goods, valued at \$82.8 billion, were off \$0.2 billion or 0.2 percent from July. An increase in petroleum shipments of \$0.7 billion or 4.1 percent was offset by declines in nearly all of the other categories. Excluding the petroleum industry, nondurable goods shipments were down 1.2 percent.

The backlog of orders for manufactured goods in August increased \$0.5 billion or 0.2 percent to \$328.7 billion. The pattern of change throughout the industries was mixed. Increases in the orders backlog for transportation equipment and machinery of \$1.1 billion and \$0.5 billion, respectively, were partially offset by declines in the primary metals order backlog of \$0.3 billion and the fabricated metals backlog of \$0.6 billion. The backlog of defense orders increased \$1.4 billion or 1.9 percent to \$77.4 billion.

The book value of manufacturers' inventories in August increased \$0.8 billion or 0.3 percent to \$272.6 billion. The primary and fabricated metal products industries reported much larger increases, going up 1.9 percent and 1.3 percent, respectively. Significant declines in inventories occurred in the motor vehicle and parts industry, down \$0.3 billion or 3.5 percent to \$9.1 billion, and the petroleum industry, down \$0.5 billion or 4.7 percent also to \$9.1 billion. The change in the inventory value by stage of fabrication showed raw materials and supplies declining 0.8 percent, work in process increasing 0.6 percent, and finished goods increasing 1.2 percent. The inventory to shipments ratio for manufactures in August was 1.62, up from 1.60 in July.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for September is scheduled for release on October 22, 1981, and the full report is scheduled for release on November 2, 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET (ATEGORIES, AND SUPPLEMENTARY SPRIES

							(Millions	of dollars										
14.00 1.00				Season	ally adjust	ed						You	seasonall	y adlusted				
1484 1485			Yout	hly			Quarterly					Youth	9				÷	1316
1985 1985	Industry					:				-3	nths		Last	-3	year			
18,666 11,1544 15,152 10,152 10,152 10,152 10,152 10,152 11,152		1981 p	1981	1981	1981	1981	1981	1980	Aug p	July 1981	lane 1981	Mav 1981	Aug 1980	1.1v 1.480	1980	May 1980	1981	1980
1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	FOTALS																	
18.679 18.178 18.189 1	ring industries	168,654	170,068	171,494	167,527	\$106,512			165,937	156,408		040	147.823	18, 1931	152 430	7.	,335,888]	195 7:8
85,827 60,929 60,929 60,120 61,126<	ing industries transportation	149,673	151,357	151,054	148,447	447,982	443.169	434,123	149,588	1-0,035 [48.475	135 371		1.3	208	155'.81'	0.6,628
11, 12, 12, 12, 12, 12, 12, 12, 12, 12,	ing industries with	88,929	89,970	950'06	88, 169	266, 373	260,885	254,362	87,124	81,378	92,405	081.88	76,154	20,695		70 465	101,692	0.0,010
17,916 27,400 9,176 10,916 17,126 17,126 17,121 17,214 </td <td>s industries</td> <td>85,827</td> <td>87,063</td> <td>88,770</td> <td>86,664</td> <td>261,761</td> <td>252,602</td> <td>249,229</td> <td>82,431</td> <td>18,497</td> <td>95,046</td> <td></td> <td>71,604</td> <td>67,470</td> <td></td> <td>11,517</td> <td>684, SuC</td> <td>603,097</td>	s industries	85,827	87,063	88,770	86,664	261,761	252,602	249,229	82,431	18,497	95,046		71,604	67,470		11,517	684, SuC	603,097
17,013 17,003 16,009 18,714 19,714 1	ods with unfilled	71,916	72,667	13,128	71,630	215 863 1	211 255	206,400	69,776	65,432	78 110		108.04	5.5 95		62,110	568, 32"	505 870
17,013 17,023 16,048 10,149 10,049 10,049 17,040 1	goods industries	82,827	83,005	82,724	80,863	244.751	243.248	237,913	83,506	71,911			76,214	70,161		73,212	651,348	1897.269
12,704 12,702 12,712 12,713 12,009 10,009 10,009 11,755 11,750 11,755 11,750 11,751 11	goods with unfilled	17,013	17,303	16,428	16,739	90,510		47,462	17,348	15,946	17,295		15,356		15,394	14,853	133,364	120 180
1,2,2,5 1,2,7 1,	KET CATEGORIES																	
25,786 75,208 75,308 75,308 75,308 75,308 75,415 75,415 75,415 75,415 75,415 75,415 75,415 75,415 75,415 75,415 75,415 75,415 75,415 75,415 75,415 75,715 75,721 75,722 75,721 75,722<	and apparel	12,234	12,792	12,572	12 235 28,207	37,089	36,096		13,230	11,555			11,821	10 088 25.899			96,064	86,949 212 146
12,306 12,354 12,696 12,612 18,504 39,202 38,402 12,416 11,805 11,305 11,305 11,905 11,005 1	nd defense products, omotive		25,208	15,438	25,241	43,191	74,189	72,322	24,533	23,006		25,416	21,415			22 872 9 619	200,152	179 542 82 897
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	n materials, supplies, sidate products		12,754	12,696	12.812	38,564	34,202	38,302	13,082	12,516	11,862	13 275	12,213	11.348		11.039	102,335	
5,091 5,512 5,003 5,731 11,10 5,137 4,715 5,606 5,100 4,908 4,001 7,904 4,605 4,100 5,100 4,908 4,001 2,004 4,100 5,100 4,908 4,100 5,100 4,908 4,100 5,100 4,908 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 5,100 4,100 4,100 4,100 5,100 4,100 5,100 4,100 4,100 5,100 4,100 5,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100 <th< td=""><td>lals, supplies, and le products</td><td></td><td>75,970</td><td>75,714</td><td>14,898</td><td>224,749</td><td>222,426</td><td>217,607</td><td>74,436</td><td>64,802</td><td></td><td>75,848</td><td>65,533</td><td></td><td>167,797</td><td>66,612</td><td>600,462</td><td></td></th<>	lals, supplies, and le products		75,970	75,714	14,898	224,749	222,426	217,607	74,436	64,802		75,848	65,533		167,797	66,612	600,462	
5,091 5,522 5,004 5,522 5,004 5,105 6,004 <th< td=""><td>EMENTARY SERIES²</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>,</td><td></td></th<>	EMENTARY SERIES ²																,	
4,021 4,226 4,126 4,126 4,136 4,136 4,136 12,097 12,092 4,136 13,229 12,097 3,136 13,106 13,106 13,228 13,126 13,106	urable goods indus- ds industries.	5,091 28,630 24,236 4,394	5,512 28,160 23,931 4,229	5,403 28,714 24,602 4,112	5,291 27,982 24,041 3,941	16,241 84,469 72,453 12,017		15,132 80,358 69,267 11,092	5,377 27,109 22,920 4,189	4,715 25,580 21,671 3,909	5,606 30,788 26,488	5,105 27,969 23,954 4,015	4,948 23,549 20,315 3,234	4,081 23,201 20,008 3,193	4,624 27 022 23.510 3,512	4,516 25,127 21,693 3,434	41,405 221,004 189,195 31,806	37 359 199,592 173,549 26,043
407 4.021 4.226 4.007 4.180 12.690 12.997 12.062 4.306 4.181 10.228 12.239 13.97 10.69 13.997 13.180 12.23 11.2397 13.240 12.239 13.240 12.23 12.239 13.240 12.23 12.239 13.240 12.23 12.239 13.240 12.23 12.239 13.240 12.23 12.240 12.2	ROUPS AND INDUSTRIES										-							
4,684 4,667 4,627 4,184 <th< td=""><td>:::=</td><td>4,021 499 11,935 6,115</td><td>4,250 546 11,971 6,228</td><td>4,207 546 11,810 6,172</td><td>4,180 498 11 824 6,209</td><td>12,680 1,567 35,325 18,482</td><td>12.597 1.386 35.521 17,804</td><td>12,062 1,290 34,933 17,477</td><td>4,306 521 11,511 5,925</td><td>4,151 515 10,806 5,736</td><td>4,592 576 12,628 6,617</td><td>4,279 501 12,267 6,364</td><td>3,907 437 9,953 4,390</td><td>3.636 410 9.137 3.990</td><td>3,871 435 10,369 4,593</td><td>3,627 397 10,671</td><td>33, 346 4,012 95,806 49,341</td><td>29,397 3,208 89,347 40,801</td></th<>	:::=	4,021 499 11,935 6,115	4,250 546 11,971 6,228	4,207 546 11,810 6,172	4,180 498 11 824 6,209	12,680 1,567 35,325 18,482	12.597 1.386 35.521 17,804	12,062 1,290 34,933 17,477	4,306 521 11,511 5,925	4,151 515 10,806 5,736	4,592 576 12,628 6,617	4,279 501 12,267 6,364	3,907 437 9,953 4,390	3.636 410 9.137 3.990	3,871 435 10,369 4,593	3,627 397 10,671	33, 346 4,012 95,806 49,341	29,397 3,208 89,347 40,801
823 864 810 826 2,488 2,614 975 1,925 1,921 1,136 <td>ous and other primary</td> <td>4,684</td> <td>4,667</td> <td>4,522</td> <td>4,472</td> <td>13,454</td> <td>14,197</td> <td>14,093</td> <td>4,497</td> <td>4,144</td> <td></td> <td>4,683</td> <td>4,621</td> <td>4,324</td> <td>4,715</td> <td></td> <td>37,300</td> <td>39,822</td>	ous and other primary	4,684	4,667	4,522	4,472	13,454	14,197	14,093	4,497	4,144		4,683	4,621	4,324	4,715		37,300	39,822
3,463 3,318 3,318 3,318 9,886 9,619 8,995 3,1352 3,196 3,421 1,384 2,773 2,703 2,903 2,904 26,531 1,400 1,400 1,401 1,40	except electrical and turbines	823 16,915 1,435 1,170	844 17,070 1,547 1,264	810 17,303 1,364 1,364	826 16,775 1,373 1,216	2.488 50,914 4,101 3,800	2,617 50,128 3,864 3,614	2,614 48,324 3,645 3,689	975 15,927 1,326 1,082	925 15,465 1,258 1,041	921 18,736 1,489 1,428	865 16,869 1,362 1,309	13.860 1.002 1.044	13.673 1 017 945	921 16,175 1,274 1,200	872 14,761 1,164 1 234	6,954 134,743 10,897 10,204	6,979 118,385 9,175 9,213
	tion, mining, and il-handling equipment, king machinery	3,463	3,318	3,315	3,318	9,856 2,910 4,282	9,619 2,957 4,071	8,995 2,987 4,123	3,352	3,196	3,471	3,384	2,773	2.703	1.047	2,909	26,531 7,70 11,299	23,664 7,197 10,454

							(Million	s or dollars	rs)									
				Seas	Seasonally adjusted	ted						Not	Not seasonally adjusted	adjusted				
			Mor	Monthly			Quarterly					Monthly	À				Year to	date
SIC	Industry									Last 4 m	months		Last	4 months a	a year ago			
		Aug. 1981P	July 1981 ^r	June 1981	May 1981	11 1981	1981	1980	Aug. 1981p	July 1981 ^r	June 1981	May 1981	Aug. 1980	July 1980	June 1980	May 1980	1981	1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
36 361,2	Electrical machinery	11,538	11,713	11,679	11,597	34,649	33, 101	32,704	11,258	10,351	12,330	11,338	10,263	9,150	10,714	10,038	89,666	81,483
363	industrial apparatus	2,042	1,915	1,948	1,916	3,459	3,398	3,343	1,964	1,680	2,094	1,937	1,710	1,556	1,921	1,731	15,152 9,035	14,421
366	Communication equipment		3,364			9,507		8,563	3,168	2,947	3,480	3,199	2,721	2,493	2,968	2,905	24,873	22,007
37.1	Transportation equipment		18,711			58,531		53,019	16,349	16,373	21,924	20,067	12,452	13,142	14,807	14,521	148,347	119,100
372,6	Aircraft, missiles, and parts.	4,827	4,453	4,898	4,734	14,459	13,626	13,868	4,459	4,167	5,258	4,820	3,679	3,902	4,339	4,327	37,012	32,118
3795	tank vehicles	1,207	1,204	1,190	1,155	3,520	3,405	2,962	1,157	1,132	1,229	1,159	1,034	1,024	1,091	1,080	9,064	8,359
381-4	Products and engineering Protographic goods	4,186 2,505 1,421	4,308 2,463 1,540	4,257 2,459 1,496	4,208 2,404 1,494	12,495 7,208 4,367	12,305 7,145 4,285	12,036 6,987 4,262	4,179 2,440 1,465	3,894 2,194 1,437	4,552 2,651 1,591	4,148 2,399 1,451	3,872 2,172 1,432	3,379 1,908 1,243	3,912	3,632 2,100 1,281	32,744 19,175 11,274	29,541 17,187 10,300
24 25 39	All other durable goods industries	7,812	8,493	8,483	8,356	25,524	24,938	24,661	8,361	7,756	8,984	8,521	7,888	6,903	7,681	7,138	790*99	60,332
201	Nondurable goods industries: Food and kindred products Meat products	22,708	22,638	22,676	21,931	67,307	66,528	66,435	22,639	21,057	23,171	21,749	22,021	19,822	21,260	20,360	177,034	164,109
208	Beverages		3,066	3,065	3,007	9,124	8,629	8,638	3,143	3,198	3,475	3,121	3,215	3,035	3,268	2,916	23,829	22,502
203-6,9	9 All other foods		1,195	1,154	8,849	3,283	3,287	3,305	1,218	7,696	9,234	1.046	9,089	7,802	9,056	8,533	71,285	69,168
22	Textile mill products		6,493	4,467	4,350	13,012	12,481	11,456	4,437	3,755	4,755	607,4	3,735	3,163	4,045	3,839	33,952	30,495
261-3	Pulp, paper, etc.		2,812	2,797	2,854	8,480	8,479	8,275	2,842	2,665	2,940	2,951	2,662	2,491	2,795	2,619	22,809	21,121
264	All other paper products		1,964	1,895	1,932	5,904	6,052	5,841	2,088	1,861	2,037	1,939	1,901	1,728	1,842	1,746	16,095	14.286
281,6	Industrial chemicals, ex-		5 7.71	707 0		16 136	12 050	16 100	201 2	270 3			100	020	00		03 67	0
283,4	Drugs, soap, and tolletries	3,661	3,667	3,780	3,644	10,998	11,644	11,753	3,573	3,351	3,932	3,400	3,799	3,479	3,873	3,358	29,508	28,625
30	Rubber and plastics products,	3,991	4,129	4.074		11.886	11,419	12.206	4.075	3.732	169,61	3 915	7 106	14,16/	3 930	3 707	31.582	32,000
23	All other nondurable goods																	
31	industries	12,414	12,736	12,308	11,993	36,304	35,480	34,519	13,142	12,123	12,266	11,430	11,586	10,607	10,908	10,295	92,006	85,355
-	3																	

Ppreliminary. TRevised.

"Snipwents and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows
Household durable goods industries--Household furniture: kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries--Household furniture: kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries--Household furniture: kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries--Household furniture:

Indicates -Acaparable to the previous producers' capital goods and the defense products (old series) categories.

The products -Acabarary, except electrical (excluding farm machinery and equipment, and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the mondedense portions of slipbulidates and relative and extense room, excluding and replaced excluding and replaced excluding and replaced excluding and replaced excluding and replaced exclusions and shipbulidates. Ordnance, communication engagement, altered to and exclusions and shipbulidates.

The data are comparable to those published annually in the MA-TY. Shippents of Pedestal Government Agencies" (Gravelly "Shippents of Defense-Ordnance Pedest) to those published annually in the MA-TY. Shippents to Pederal Government Agencies" (Gravelly "Shippents of Defense-Ordnance Pedest) and shippents of the Special Agencies of Comparable and Co

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Table 2. VALUE OF MANUFALTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATECARIES, AND SUPPLIMENTALL SERIES

(Millions of dollars)

							MILLION	s or collar	15									
				Season	Seasonally adjusted	p-a						Not		seasonally adjusted1	1 1			
			Monthly	hly			Quarterly					Monthly	14			_)esr-to-date	-date
SIC	Industry					:	,			Last 4 mc	nonths		Last	4 months	a year ago			
		1981p	1981 F	June 1981	Na.5 1981	1981	1981	1986	Aug. 1981P	July 1981	June 1981	Way 1981	Auk. 1980	July 1980	June 1980	Max 1980	1981	1980
	TOTALS																	
	All manufacturing industries	169.163	172,355	170,913	169,340	508,837	499,772	491,844	lba, lui	156 8.11	178,014	168,662	147,422	140,637	144,872	140,850 1	3+3,504	1,202,360
	Manufacturing industries excluding transportation	149,053	151,702	151,856	149,247	450,989	443,887	440,295	148 256	139.882	157,868	148,642	135,497	124,894	134,779	127,209 1	194 .1	1.070,255
	Manufacturing industries with unfilled orders	867'68	92,257	89,475	90,182	268,697	.64,758	259,064	RC. 33.		93,441	88.712	75,758	73,701	77,285	71,084	204 1 5	632,622
	Durable goods industries	86,325	055,68	88,303	88,164	263,647	256, 383	253,912	, , , , , , , , , , , , ,	- 1 321 . 60	93, 280	87,680	71,133	70,674	74,435	68,160	591.32h	610,037
	orders,	72,414	75,044	72,661	73,130	217,748	215,034	211,584	68,052	. + S 4	76, 344	71,802	60, 327	111,65	62,333	56,753	575,113	512,810
	Nondurable goods industries	82,838	82,915	82,610	81,176	245,190	143,389	237,931	7	÷, ,,	84,734	80,922	76,289	69,963	75,437	2,69(651 477	592,263
	orders with district	17,024	17,213	16,814	17,052	676,05	49,734	47,481	1,28.	15.841	17,097	16,910	15,431	13,924	14,952	14,331	133,992	119,812
	orders	65,814	45,702	65,796	64, 1.4	194,241	193,665	190,451	64 . 158	11.305	67,437	h+,012	60,858	56,039	50,485	58,359	517 982	472,451
	MARKET CATEGORIES												-					
	Home goods and apparel	12,124	12,828	12,776	12,083	37,187	36,749	34,894	28.954	11,782	13,1k8 30,010;	11,484	11,927	16,089	11,006	10,174	97,471	87,257 212,235
	Equipment and defense products, except automotive	27,157	26,944	25,025	25,365	75,996	78,323	75,474	11.836	127.53	26,042	24,852 15,040	20,789	22,390	24,484	21.083	203 766 139 6-3	185,642
	Construction materials, supplies, and intermediate products	11,994	12,900	13,166	12,755	38,764	39,024	38,440	12,715	12.01>	14,265	13,239	12,012	11,180	11,722	11,212	102.623	92,399
	intermediate products	74.960	76,212	42+15	76,691	227,079	221,355	218,614	71,737	5454	32,740	76,185	186,54	62,189	65,491	62,981	601,974	543,044
	SUPPLEMENTARY SERIES ²																	
	Household durable goods industries. tries. Capital goods industries. Nondefense.	4,996 30.025 24,195 5,830	5,510 29,708 24,226 5,482	5,625 28,186 23,230 4,956	5,119 29,248 23,865 5,383	16,347 86,133 71,818 14,315	16,412 86,096 70,468 15,629	15,001 81,974 69,640 12,334	5,379	25,741 21,674 21,674	5,845 29,537 25,090 4,447	4.981 27.903 22.797 5.106	5,064 23,209 19,534 3,675	4,068 26,899 21,264 5,e35	4,571 26,948 22,785 4,163	4,439 23,680 19,273 3,807	42 778 225,979 189 193 35 781	37,769 211,500 177,262 34,238
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33 331	Durable goods industries: Stone, clay, and glass. Primary metals. Blast furnaces, steel mills.	4,035 11,598 6,065	4,246	4,259 11,324 6,040	4,217 11,809 6,076	12,686 34,964 18,453	12,425 34,228 17,291	12,095 37,171 19,174	4.26+	4,165	4,602 11,561 6,106	4,295 11,802 5,966	3,809 10,521 5,124	3,629	3,707	3,561 8,513 3,631	33 374 94.529 49.073	29,297 86,171 38,975
35	2 2	4,508 9,828 17,189 1,486	4,842 10,804 16,376 1,261	4,235 10,979 17,303 1,449	4,612 10,607 17,082 1,325	13,322 31,877 51,889 4,335	13,746 31,223 50,334 4,200	14,625 31,880 50,070 3,686	4,349 9,958 15.766 1.498	4,071 10,054 15,001 1,124	4,386 11,581 18,838 1,412	4,673 10,673 16,63 1,241	4,513 9,099 13,152 1,270	4,321 8,491 14,606 898	4,296 9,152 15,596	4,406 8,915 13,149	36.814 83.919 136.323 11.011	39,454 75,079 117,104 8,268
354 356	Construction, mainty, and material-handling equipment. Netalworking machinery	3,330	3,629	3,856	3,523	11,085	10,615 2,701 4,198	9,619 2,617 4,014	3,096	3,517	3,897	3,440	2,592 635 1,160	2,665	2,648 1,027 1,336	2,633 828 1,244	28,836 6,626 12,027	23,153 7,547 10,015
See	See footnotes at end of table.																	

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, IND SUPPLEMENTARY SFRIES--Continued

Not seasonally adjusted1	Monthly hear-to-date	Last 4 months a year ago	May Aug. July June May 1980 1980 1980			951 11,570 10,829 9,054 10,51: 9,793 93,836 85,745	2,059 1,689 1,553 1,864 1,655 15,805	598 910 604 782 614 7,048	3,392 3,340 7,665 2,754 2,824 27,120	486 2,458 2,026 1,774 2,276 2,121 19,153 18,282 46 19,960 11,925 15,748 15,091 13,641 149,094 176,045	5,16(3,259 6,514 5,613 4,428 37,203	805 816 1,284 1,036 963 860 10,136 8,862	83 4,165 3,874 3,311 5,937 3,553 33,020 :9,917	118 8.580 7.924 6.962 7.443 7.035 67,216 60,629
		Last a months	Aug. Julv June 1981P 1981r 1981			11,483 10,517 12,951	1,702	798	3,045	2,313 2,088 2,486 15,940 16,949 20,146	4,776	1,487 968 80	4,169 4,010 4,683	8,300 7,868 8,918
	Quarterly	,	1981 1980			36,281 34,371 34,109	5,798	2,845	9,811	57,848 55,886 51,549	16,553	3,996 3,796 3,628	12,540 12,330 12,159	25,563 25,586 24,879
Seasonally adjusted	ly .	,	1981 1981 19			12,600 11,721 36	2,127	711	3,136	2, 321 2,549 7 19,057 20,093 57	5,803	865 1,085 3	4,333 4,293 12	8,448 8,342 35
	Monthly		1981p 1981F			11,718 12,055	2,047	958	3,432	2,401 2,347	5,233	1,921 1,417	4,156 4,425	7,691 8,415
		Industry		INDUSTRY GROUPS AND INDUSTRIES	Durable goods industries	Electrical machinery Electrical transmission and	industrial apparatus	Radio and TV	Communication equipment	Transportation coupment	Aircraft, missiles, and parts.	tank vehicles	Instruments and related products	All other durable goods industries
		SIC				361,2		365		367	372,6	37.95	99	200

*Supports and now orders are the totals for the period and are adjusted for tradiage-lay and calendar-wouth variations unfilled orders and inventories as of the end of the period and are not adjusted for tradiages are recomparized to reproduce as follows. The appliances are recomparized the separate industry categories as follows. Hausehold durable goods industries flowed toruling, and it is not and portery, cutley, and and hardeave, household appliances, radio and W. opthaline, goods, watches, and it is not as in it. It.

Capital Egoba inflatives—Control to the previous problevers' capital goods and the defense products fold series' categories.

**Capital Egoba inflatives—Control (oxidative fire mathemery and equipment and series) between the control of the control oxidatives of sufficient and regard control oxidation and regard equipment, communication equipment, and attend the control oxidation of sufficient and attend for the control oxidation of control oxidation in the following inflatives of control oxidation of control oxidation in the following inflatives of control oxidation or control oxidation in the following inflatives of control oxidation or control oxidation or control oxidation or control oxidation of the control oxidation oxidation of the control oxidation

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY CROUPS, WARKET CATEGORIES, AND SUPPLEMENTARY SERIES

							(Millions	(Millions of dollars										
					Seasona	Seasonally adjusted	F.						Not	t seasonally	ly adjusted1	rd.		
			Mos	Monthly				quarterly						Monthly	hly			
SIC	Industry		,									Last 4	months		La	Last 4 months	months a year ago	
		1981 p	1981	1981	1981	148]	1980	1980	11861	1980	Aug. 1981	July 1981	June 1981	May 1981	Aug. 1980	July 1980	June 1980	May 1980
	TOFALS									^								
	All manufacturing industries	328,710	328,206	325,918	326,508	323,602	319,729	315,027	3 6, 494	313, 627	325,082	326,866	326,446	328,411	309,461	339,862	306, 850	309.914
	excluding transportation	210,124	210,750	210,403	209,608	207, 405	2716, 586	200,514	197.955	2017,445	210,016	211, 390	211,546	211, 732	199,483	199,357	198,947	202,291
	Durable goods industries	317,347	316,853	314,477	314.454	312,598	308,815	3 14, 133	290, 750	301 463	313,785	315,502	314,968	316, 736	298, 790	299,272	296,068	798, 684
	Nondurable goods industries	11,363	11,353	11 441	11.554	11, 205	19, 913	768. 1	1. 1. 744	11,663	11,297	11,364	11,478	11.675	10 665	10,590	10.788	11, 230
	MARKET CATEGORIES								-									
	Home goods and apparel	4,819	4,922	4,854	4,609	4.554	3,988	4, 985	4,215		5,279	5,278	4,956	4,710	0 3 7 7	4.318	4,284	4,359
	Automotive equipment	3 194,142	192,756	190,926	191,990	191,324	186,876	183,272	177,896	178,932	190,863	191,588	191,039 .	192,595	178,652	179,421	177,928	178,366
	Construction materials, supplies, and intermediate products	17,443	17,752	17,607	17, 137	17,400	17.587	17,399	17,749	17, 973	17,537	17,903	17,805	17,401	17,584	17,785	17,953	18, 192
	intermediate products, und	112,206	112,776	112,531	112.772	110,206	111 277	110,270	105, 635	112, 277	111,403	112,097	112,636	113, 705	108, 785	108,338	106,691	108,997
	SUPPLEMENTARY SERIES?							-										
	Household durable goods indus- tries (Capital goods industries) Nondefense.	3,632 224,926 147,540 77,386	3,728 223,533 147,581 75,952	3, 732 221, 984 147, 288 74, 696	3,511 222,518 148,666 73,852	3, 628 220, 323 147, 924 72, 398	2,954 215,028 147,673 58,355	3,084 214,413 147,300 67,113	3,220 206,684 146,477 64,207	3,569 205, 116 147,865 57,151	4,080 221,089 146,475 74,614	4,076 221,738 147,243 74,495	3,884 221,577 147,241 74,336	3,644 222,829 148,640 74,189	3,428 209,636 145,824 52,812	3,312 209,976 147,605 62,371	3, 325 206, 278 146, 349 59, 929	3,378 206,352 147,074 59,278
	INDUSTRY GROUPS AND INDUSTRIES																	
32	Durable goods industries Stone, clay, and glass.	2,301	2,287 29,090	2, 292	2,240	2,288	2,460	2,426	2,531	29 676	2,324	2,365	2,351	30,264	2,492	2, 590	2,597	2,761
333-6,9		17,054	17,105	16,897	17, 928	16,926	17,439	15,742	13, 258	15,859	16,628	17,088	17,471	17,982	14,341	13,607	13, 709	14,389
34	Fabricated metal products Machinery, except electrical	8,423 30,007 75,159	8,599 30,620 74,885	8,425 30,362 75,578	8,712 29,975 75,580	8,557 30,134 74,602	9,008	8,476 29,800 72,650	8,219	8,849 31,504 75,861	8,288 30,080 75,102	8,436 30,661 75,262	8.509 30,309 75,725	8,912 30,028 75,620	8, 198 30, 411 72, 289	8,306 30,726 72,997	8,309 30,685 72,064	8,728 31,055 72,643
353	Construction, mining, and material-handling equipment.	11,167	11.299	10.989	10.048	9.760	8 765	17, 504 R 141	17, 823 B 062	020.07	11 055	11 311	18, 142	10 563	7 953	10,401	17,520	080,81
354	Metalworking machinery	6,010	6,233	6,459	6,663	7,035	7,292	7,661	7,986	8,046	6,106	6,208	6,534	6, 643	7,756	7,932	7,938	7,958

See footnotes at end of table.

Table 3, VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES-Continued

(Millions of dollars)

							1	-										
					Seasons	Seasonally adjusted	pa						Not	seasonally	Not seasonally adjusted ¹			
			Mon	Monthly				Quarterly						Monthly	1y			
SIC	Infustry group		Total or				11.1		:	,		Last 4 months	onths		Las	Last 4 months a year	a year ago	
		1981p	1981 1981	1981	1981	1981	1980	1980	1980	1980	Aug. 1981	July 1981	June 1981	May 1981	Aug. 1980	July 1980	June 1980	May 1980
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery	50,645	50,466	50,124	49,207	767, 87	47, 225	45,819	45,341	44,505	50,649	50,420	50, 257	49,637	45,953	45,387	45,483	45,685
	distribution equipment and	087 8	8 7.75	8 392	8. 446	8 361	7 967	7,905	8.027	7 735	8 497	B 460	9.439	8 522	C70 8	8 063	8 066	8 123
363	Household appliances	391	415			415	411	451	319	294	419	455	097	677	395	345	338	299
34.5	Radio and TV	459	407						416	389	909	438	388	165	522	411	426	317
366	Communication equipment	27,914	27,788	27,542	26,830	26,345	2		22,802	22,090	27,527	27,505	27,407		23,489	22,870	22,698	22,912
367	Illectribute components	12,270	12,205						12,695	12,854	12,430	12,363	12,390	12,226	12,432	12,631	12,873	12,932
37 372.6	Transportation equipment	118,586	117,456				113,043	114,513	108,540	105,682	115,066	115,476	114.900		109,978	110,505	107,909	107,623
37.31	Shipbuilding and military	92,574	92,166	90,504	91,319	91,299	88.371	90,466	85,924	80,345	89,857	90,625	90,015	91,055	87,600	88,020	85,408	84, 134
3795	tank vehicles	17,880	17,166	16,953	17,279	16,478	16,087	15,421	13,490	13,549	17,141	16,811	16,975	17,399	13,769	13,519	13,513	13,641
3 %	products	7,143	7,173	7,056	6,982	7,012	6,987	6,863	996.9	7.064	7,217	7,226	7, 110	086'9	6.931	67,626	6,997	6,972
36	ındustries	4,755	4,876	4,955	7,990	4,915	4,267	4,050	4,244	4,809	5,170	5,230	5,119	5,187	4.468	4,432	4,373	4.011
c																		

'Shapemens and new orders are the totals for the period and are adjusted for tradang-day and calendar—nonth variations, unfilled orders and inventories are of the end of the period and are adjusted for tradanguent variations.

The supplementary series are regrouplings of the separate industry categories as follows:

Phoseolid unfairties—shousehold furniture; Arithen articles and pottery, cullery, handtools, and hardware, household appliances, radio and TV, ophthabaic goods, watches, and clocks and miscella-

neous personal goods.

Chight ploods indicates—demandable to the previous producers' capital goods and the detense products (old series) categories.

Sonichuse orderstres—demandable to the previous producers' capital goods and the detense product selection and reparation and reparation and reparation and reparation and reparation detenser, communication equipment, arrival parts, and other communication equipment, arrival and surrest parts, and surrest and arrival, and surrest parts are separate parts.

laste at Mart of Manager 1948. Interported and in both wheat all only and appropriate their

Williams of dollars

					Seasonally	ly admissed							Vot	seasonally	advosted			
			Wenthly	ylv			3	Unarterly						Vastbly	1.v			
N N	Industry	Auz.	July	Tone	Max	-			an be	-		E + 2 17	unth-		Last	t 4 months	a vear ago	
		1981p	1981F	1861	00° + 1	1 R + 1	ξ.	90	1980	. *	198.p	July 1981	June 1981	May 1981	Aug. 1980	fuly 1980	June 1980	Max 1980
	PVPALS																	
	All manufacturing industries	172,540	8 .	266, 739	269.264	246 314	1.86 . 6.	256.83	255,421	. S.L. 48.	1.884	.: ::	271.23H	271,609	255,938	256,223	256,910	258, 418
	cluding transportation	233,966	2.6.9.4	231,981	.31 изз	228,413	221 176	221, 393	221, 442	218, 973	1 6.7	7.4.5%	231,971	233, 131	220, >01	222, 302	222,850	224. 34H
	unfilled orders	186,555	18,240	183, 035	181,8.9	180,27,	174, 725	173,231	173,188 1	197	- X .	180 - 1	184, n. 7	184, 421	173,797	174,371	174,706	175,241
	Durable goods industries	182,0005	180,850	178,676	177,43,	175,224	171.6 3	17 . 153	154,754	.55.717	181 '5'	18. P.	1179, 7111	174.934	174,290	, 70, 14w	, 70, 74+	172, 350
	orders	166,071	164,747	162,821	161.682	150,227	15,43	153,480	153, 649 1	151.127	lne, ols	165. 61	163,814	163, 733	154,204	154,572	154,582	155,246
	Nondurable goods industries	90,635	41, 117	41,033	41,623	43,43	80,377	8n + 72	Ab. 6.12	84,771	40.1 4	, if . e	90,518	91,650	85,643	86,074	80,100	80,368
	Nondershie goods with unlilled	20,484	, U, +9 s	20,215	29,127	23 047	19,326.	19,24	19 +20	19.071	70.81L	A5 4, 07	20,833	20, 688	19,593	19, 799	2.134	19,99,
	MARKET CATEGORIES													_				
	Home goods and apparel	71,960	21,647	21.410	21, 76.1	32,880	32,21	20 34, 3, 488	31,283	31.31.	\$ \$ 	11. 75. 11. 75.	22,510 31,704	22, 617	20,844	21, 156	21,750	21, h\$0 30, 511
	Equipment and detense products, except automotive	74,083	13,756	73.240	12, 197	71,400	11,872	63,288 11 389	67,787	64,824	73 %8	73,74 4	73, 432	73,455	11,781	68, 733	11,962	67,873
	Construction materials, supplies, and intermediate products	22,747	,613	22,393	22,055	21.51.	21,26r	20,809	20,449	21, 199	1.146	716,33	22,544	22,469	20.724	20,923	21,133	21,564
	intermediate products	109, 142	159,45.	108,478	108,264	107, one	1 +2, 370	1-12, 767	103,380 1	130, 715	134,801	109,601	108,801	109.395	102,099	103, 393	103.738	104, 133
	SUPPLEMENTARY SERIES								_									
	Household durable goods indus- tries. Capital goods industries. Nondefense.	10,615 83,625 771,929 12,696	19,445 83,283 70,602 12,681	10, 250 82, 376 69, 676 12, 700	10, 323 81, 508 69, 335 12, 273	10, 236, 80, 436 68, 473	9, 992 78, 245 67, 234 11, 021	9,980 77,469 67,021 10,447	10,198 75,420 65,672	10, 158 72, 363 53, 118 9, 246	13,761	10,65° 83.469 70,5c7 12,942	10,598 82,777 69,941 12,836	10, 719 82, 606 70, 162 12, 444	10,211 76.856 66,393 10,463	10, 264 76, 688 66, 449 10, 239	10,542 75,811 65,950 9,861	10, 642 75, 563 65, 959 9, 704
	INDUSTRY GROUPS AND INDUSTRIES																	
32	Durable goods industries: Stone, clay, and glass products Glass containers.	6,772	6,642	6,599	6.509	6, 398	n, 145	5,015	6,189	6,034	0 ° °	5.680	608	6,732	5,990	6,175	6,266	638
331	Primary metals	24, 391	23.926	23,334	23, 163	23,640	21,976	22, 022	22,555	22, 248	17.7	23,914	23,398	23,277	22, 199	22.579	22,592	22, 703
34	Rebricated metal products	10,263	10,016	9,819	9, 686	9.563	B, 802 19, 773	8,564	8,484	8,577	10,161	20,210	9,888	9,812	8,459	8, 729	8,543	8,656
351		1,528	1.544 41.036 2.472 2.472	1,571 40,342 2,423 2,749	1,585 40,070 2,378 2,784	1 637 39,618 2 423 2,801	1, 744 39, 189 2, 474 2, 774	1,578 39,726 2,457 3,127	1,732 39,514 2,522 3,148	1,810 38,297 2,654 3,075	1,498 40,934 2,394 2,731	2,727	1,753 40,604 2,455 2,793	1,799 40,610 2,423 2,870	1,557 39,484 2,429 3,096	1, 786 39, 723 2, 463 3, 134	1,933 39,771 2,549 3,195	2,119 40,083 2,689 3,244
354 356	Construction, mining, and material-handling equipment. Netakorking machinery General industrial machinery.	9,077	8,951 2,719 3,787	8, 789 2, 636 3, 753	8,653 2,660 3,670	8,469 2,624 3,603	8,446 2,760 3,561	8,650 2,855 3,627	8, 766 2, 833 3, 637	8,416 2,703 3,569	8,949 2,676 3,841	8.915 2.714 3.795	8,806 2,644 3,786	8,714 2,694 3,696	8,580 2,861 3,634	8, 703 2,860 3,642	8,784 2,842 3,570	8,748 2,846 3,658

(Millions of dollars)

							and the state of t	100										
					Seasonally	lly adjusted	p						Not	seasonally	/ adjusted			
			Monthly	l y			ď	Quarterly						Monthly	Ly.			
SIC	Industry							;	:	,		Last 4 mo	months		Last	4 nonths	а уеаг адо	
		aug.	1981 1981	June 1981	1981	1981	1980	1980	1980	1980	Aug.	July 1981	June 1981	May 1981	Aug. 1980	July 1980	June 1980	Nay 1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries Continued																	
361,2	Electrical machinery	26,169	25,987	25, 689	25,457	25,057	24,383	24,350	24, 145	23, 788	26,187	26,165	26,173	26, 111	24,314	24,504	24,612	24, 784
2,50	٠.	96544	4,573	4,488	4,428	4,263	4,163	4, 222	4, 263	4,142	4,556	4,558	4,526	4,520	4,221	4,293	4, 298	4,348
365	Radio and TV	1,582	1,550	1,492	1,481	1,444	1,311	1,292	1,309	1,269	1,663	1,622	1,561	1,571	1,383	1,383	1,371	1,398
367	Electronic components	4,832	678'7	4,795	4,741	4,560	4,557	4,450	4,422	4, 253	4,832	4,887	4,871	4, 798	4,456	4,459	4,493	4,414
371	Transportation equipment	38,674	38,949	38,628	38,427	38, 111	36,810	35,442	34,429	33,413	38,985	38,534	9,035	9,295	35,437	34,218	9,610	34, 070
3731	Aircraft, missiles, and parts Shipbuilding and military tank vehicles	25,156	25,151	24,820	24,421	24,001	22,918	21,835	20,180	18, 538	25,252	25,327	2,621	2, 726	2,198	2, 219	2 122	2,033
38	Instruments and related	70467	CC467		17,17	4 0				3 7 7	47767							
381-4	Scientific and engineering Photographic goods	9,573 6,833 2,241	9,569 6,834 2,224	9,603	9,645	9,380	9, 281 6, 474 2, 243	9, 037 6, 309 2, 172	8,994 6,263 2,135	8, 727 5, 988 2, 112	2,294	9,045 6,847 2,284	9,771 6,924 2,321	9,854 6,941 2,358	9, 103 6, 324 2, 203	9, 121 6, 347 2, 194	9, 154 6, 338 2, 205	9,114 6,248 2,237
24 25 39	All other durable goods	14,867	14,715	14,508	14,568	14, 213	14,046	14,175	13,923	14,040	14,774	14,667	14,618	14,677	14,200	13, 932	14,032	14, 159
20	Nondurable goods industries: Food and kindred products	21,603	21,836	21,862	22,114	22,237	22,325	22, 358	21, 263	21,377	21,117	20,818	20, 774	21,276	21,389	20,811	20, 191	20,367
208	Beverages	3,628	3,705	3, 743	3, 797	3,909	3,866	2,388	3,895	3,849	3,472	1,464	1,559	1,723	1,532	3, 545	1, 739	1,601
203-6,9	1	12,602	12,564	12,456	12,551	12,476	12,428	12,480	3,507	3, 487	12,577	3,351	11,509	3,592	3, 281	3,184	3,339	3,397
22	Textile mill products	6,559	6,608	6,604	6,562	6,518	6,386	6, 102	6,250	6,274	6,588	6,638	6,739	6, 733	6,078	6,178	6,377	6,508
261-3	Pulp, paper, etc	3,126	3,051	3,018	2,983	2,972	2, 794	2,894	2,779	2,550	3,125	3,062	3,072	3,050	2,866	2,817	2,828	2, 787
265	Paperboard containers	3,008	3,111	3, 108	3,037	3,126	1,973	2.953	2,094	3,007	2,346	2,333	2,312	3,173	3,009	2,982	3,088	3,070
28	Chemicals and allied products	20,220	20,116	20,218	20,029	19,488	18,489	18.478	19,211	18,546	19,968	19,993	19,902	20,011	18, 282	18, 733	18,937	19.173
283 4	pigments	6,870	6,849	6,961	6,880	6,693	6,244	6,200	6,714	6,275	5.846	6,856	6,822	6,880	6,201	5, 496	197	5.532
30	Petroleum and coal products	9,149	909 6	9,996	10,278	9,885	8,240	8,805	8,711	7,966	9,252	9,601	9, 761	10, 204	8,835	8, 803	8.525	8,315
23	a.c.c.	5,578	5,677	5,634	5,616	5,538	5,279	5, 232	5,603	5,759	5,492	5,638	5,600	5.706	5,181	5,494	5,631	5,890
31	All other nondurable goods industries	15,140	14,982	14,817	15,103	14,656	14,353	14, 243	14,241	13, 762	15,603	15,750	15, 738	15,653	14,704	14,976	15,156	24, 735
Ppre	Ppreliminary, Thewised.															-		

Estragements and new corners are the totals for the period and are adjusted for trading-day and calendar-worth variations, unfilled orders and inventories are as of the end of the period and are not adjusted to a second are recovered to the separate industry categories as follows:

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Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

			Pe	rcent chang	es				Revisions ²	
Item and industry group	M	onth-to-mon	th	Avera	ige monthly	rates of c	hange 1	Year	Average	monthly
	July 1981- Aug. 1981	June 1981- July 1981	May 1981- June 1981	Second quarter 1981	First quarter 1981	Fourth quarter 1980	Sept. 1980 through Aug. 1981	ago Aug. 1980	Aug. 1980 through July 1981	Aug. 1976-1980
Shipments:										
All manufacturing industries	-0.8	-0.8	+2.4	+1.1	+0.4	+1.4	+0.9	0.5	0.3	0.4
Durable goods industries	-1.4	-1.9	+2.4	+1.4	+0.6	+1.5	+1.1	0.3	0.3	0.4
Nondurable goods industries	-0.2	+0.3	+2.3	+0.8	+0.2	+1.3	+0.8	0.2	0.4	0.4
Inventories:										
All manufacturing industries	+0.3	+0.8	+0.2	+0.4	+1.1	+0.1	+0.5	_	0.1	_
New orders:										
All manufacturing industries	-1.9	+0.8	+0.9	+0.7	+0.1	+1.5	+0.9	0.2	0.4	0.5
Durable goods industries	-3.5	+1.3	+0.2	+0.6	+0.1	+1.8	+1.0	1.2	0.4	0.9
Nondurable goods industries	-0.1	+0.4	+1.8	+0.8	+0.1	+1.3	+0.7	0.6	0.4	0.4
Unfilled orders:										
Durable goods industries	+0.2	+0.8	-0.2	+0.2	+0.4	+0.5	+0.4	0.1	0.1	0.1

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

to the state of th									
Industry group	Inventoriesshipments ratio				Unfilled ordersshipments ratio ¹ (months' backlog)				
Industry group		July 1981 ^r	June 1981	May 1981	Aug. 1981P	July 1981 ^r	June 1981	May 1981	
All manufacturing industries	1.62	1.60	1.57	1.61	3.70	3.65	3.62	3.69	
Durable goods industries Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products.	2.12 1.68 2.04 1.94 2.44 2.27 2.04 2.29	2.08 1.56 2.00 1.90 2.40 2.22 2.08 2.22	2.01 1.57 1.98 1.89 2.33 2.20 1.89 2.26	2.05 1.56 1.96 1.87 2.39 2.20 2.01 2.29	4.41 0.65 2.41 3.12 4.77 4.39 10.72 1.71	4.36 0.62 2.43 3.16 4.74 4.31 10.93	4.30 0.63 2.42 3.10 4.72 4.29 10.16	4.40 0.61 2.46 3.07 4.86 4.24 11.11	
Nondurable goods industries Food and kindred products Tobacco products. Textile mill products. Paper and allied products Chemicals and allied products Petroleum and coal products Rubber and plastics products, n.e.c.	1.09 0.95 3.31 1.48 1.32 1.33 0.55	1.10 0.96 3.15 1.47 1.30 1.30 0.61 1.37	1.10 0.96 3.09 1.48 1.30 1.32 0.61	1.13 1.01 3.58 1.51 1.28 1.35 0.63 1.46	0.67 (X) (X) (NA) (NA) (X) (X) (X)	0.66 (X) (X) (NA) (NA) (X) (X)	0.68 (X) (X) (NA) (NA) (X) (X) (X)	0.69 (X) (X) (NA) (NA) (X) (X) (X)	

⁽NA) Not available.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Preliminary. rRevised.

⁽X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums, farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; bolacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and believing papers and board; chemicals; petroleum and coal products; and believing papers and board; chemicals; petroleum and coal products; and coal papers and board; chemicals; petroleum and coal products; and coal papers and board; chemicals; petroleum and coal products; and coal papers are products; and coal papers are products.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey provides broad-based monthly statistical data on economic conditions in the domestic manufacturing sector. It is designed to measure current industrial activity and to provide an indication of future trends. The data are used extensively by the executive branch of the Government in developing economic, fiscal, and monetary policy; by the Bureau of Economic Analysis (BEA) as components of the gross national product estimates; and by trade associations, corporate economists, and other members of the business community as an analytical tool in their assessment of the current and future economic condition of the country.

The M3 shipments and inventory data are comparable to the totals published in the Annual Survey of Manufactures (ASM). The ASM is a sample survey of approximately 70,000 manufacturing establishments drawn from a 5-year census of manufactures universe of about 350,000 manufacturing establishments. In the ASM, each manufacturing location reports data on value of shipments, beginning and end-of-year inventories, as well as various other economic variables.

The monthly M3 estimates through 1980 are based on information obtained from approximately 4,500 reporting units and include most manufacturing companies with 1,000 or more employees. In addition, selected smaller companies are included to strengthen the sample coverage in individual industry categories. For firms which operate in a single M3 industry category, the reporting unit typically comprises all operations of the company. At the request of the Census Bureau, most large, diversified companies file separate reports for divisions which operate in different industrial areas.

Each company or reporting unit of a company in the survey is classified into 1 of 79 industry categories for which separate estimates are made based on the major activity of the reporting unit. Some reporting units include industry activities outside the M3 category in which they are classified. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category.

The M3 series is periodically benchmarked to the Census of Manufactures and the ASM for shipments and inventories. The most recent benchmark included data for 1977 and 1978. Since benchmark data for unfilled orders are not available, levels are based upon the ratio of unfilled orders to shipments of reporting companies. In the 1977-1978 benchmark report, unfilled orders levels were revalued based on unfilled orders to shipments ratios of reporting companies in the monthly M3 survey; the MA-300, a one-time annual supplemental survey of multi-establishment companies; and the ASM for single-establishment companies.

MONTHLY ESTIMATING PROCEDURE

The monthly estimates of shipments, unfilled orders, and total inventories are derived for each industry category by

multiplying the industry estimate for the previous month by the percentage change from the previous month for companies reporting in the current month.

Though collected as a separate item, new orders are not calculated according to the standard ratio-estimate procedure. The reason for this is that not all companies report new orders and some that do report this item limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. New orders are, therefore, computed by adjusting the current month's shipments by the change in the backlog of unfilled orders. (New orders equal current month shipments plus current month unfilled orders minus prior month unfilled orders.) Thus, the estimate of new orders includes orders that are received and filled in the same month as well as new orders that have not yet been filled. Also included are the effects of cancellations and modifications on previously reported orders.

SEASONAL ADJUSTMENT

The monthly data on shipments, inventories, and unfilled orders are adjusted for seasonality at the most detailed level tabulated in the survey, using the X-11 variant of the Census Bureau's seasonal adjustment program. Data from January 1958 through December 1980 are included in the calculations of the factors used in this publication.

Seasonally adjusted industry aggregates are derived by adding seasonally adjusted components rather than by direct seasonal adjustment of the aggregates. New orders data are not independently seasonally adjusted but are derived at the most detailed levels from the seasonally adjusted shipments and the change in the seasonally adjusted unfilled orders and then similarly aggregated.

EXPLANATION OF TERMS

Value of Shipments—The shipments estimates published in the monthly survey are equivalent to value of shipments as reported in the ASM which are net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments is the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the shipbuilding industry, the value of shipments in a given time period varies considerably from the value of work done because of the long lead time between the input of the materials and labor and the delivery of the completed ship. For this industry and for aircraft and missile producers working under cost-plus contracts, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and M3 industry

category levels since the products of some four-digit SIC industries are used as materials by other industries within the same industry aggregate. The significance of the duplication within the specific M3 industry categories varies depending on their four-digit industry composition. It is most pronounced in a few highly integrated industry areas, such as primary metals and motor vehicles and parts.

For multiunit companies, the M3 reports received each month typically are not plant reports but are company or divisional level reports that encompass groups of plants. The actual sales reported are usually net sales and receipts from customers and exclude the duplication of interplant transfers. The reported sales are used to calculate month-to-month changes which bring forward the plant-based shipments for the industry category as estimated in the ASM.

Inventories—In the monthly survey and in the ASM, respondents are asked to report their inventories at book values. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of aggregate inventories for all plants in an industry is not precise.

There are also some inconsistencies between the M3 company or divisional reported inventory levels as compared with the ASM establishment reported levels. The change in the value of inventories, month-to-month as well as year-to-year, is considered to have greater significance and reliability.

Inventory data are requested from respondents by stage of fabrication, i.e., finished goods, work in process, and raw materials and supplies. However, the quality of these data is limited due to lower response rates and the inclusion of the same type of inventory under different stages of fabrication in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations received during the month on orders previously reported. They include orders received and filled during the month as well as orders received for future delivery. They also include the net sales value of contract changes which increase or decrease the sales value of the unfilled orders to which they relate. Orders are defined to include only those supported by binding legal documents such as signed contracts, letters of award, or letters of intent, although in some industries this definition may not be strictly applicable. In the case of letters of intent, the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included.

Unfilled orders include orders as defined above that have not been reflected as shipments. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net shipments.



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Manufacturers' Shipments, Inventories, and Orders

SEPTEMBER 1981

M3-1/811-9

U.S. Department of Commerce

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in September decreased \$1.5 billion or 0.9 percent to \$168.5 billion the Department of Commerce, Bureau of the Census reported today. Excluding orders for defense capital goods, the decline was \$2.6 billion or 1.6 percent.

New orders in the durable goods industries declined \$1.6 billion or 1.8 percent to \$85.8 billion. The decline for new orders was revised from the 2.9 percent decline reported earlier. Most of the revision was due to more complete reporting in the machinery industries.

Within the durable goods industries, new orders for transportation equipment showed the sharpest drop, down \$1.5 billion or 7.3 percent from August to \$18.9 billion. Other major durable goods industries reporting declines were primary metals, down \$0.3 billion or 2.2 percent; and nonelectrical machinery down \$0.5 billion or 3.0 percent. New orders for electrical machinery were up in September \$0.4 billion or 3.2 percent. Excluding order increases for defense communication equipment, electrical machinery orders declined 2.6 percent.

New orders for the nondefense capital goods industries as a group declined \$2.0 billion or 8.0 percent to \$22.7 billion. Most of the nondefense components were down, with the largest occurring in the aircraft and parts industries. New orders for defense capital goods were up \$1.0 billion or 18.1 percent to \$6.8 billion, as new orders for aircraft parts and communication equipment more than offset a large decline in the shipbuilding and military tanks category.

Manufacturers' shipments declined slightly in September. Shipments for the month were valued at \$169.1 billion, down \$0.4 billion or 0.2 percent for August. This is the third consecutive monthly decline in shipments, following decreases of 0.7 and 0.5 percent in July and August respectively.

The largest shipments declines in the durable goods sector were in the motor vehicle and parts industry, down \$0.4 billion or 3.4 percent to \$11.9 billion, and the primary metals industries down \$0.4 billion or 3.6 percent to \$11.5 billion.

Shipments by nondurable goods manufacturers increased \$0.3 billion or 0.4 percent in September from August. A decline in petroleum shipments of \$0.5 billion or 2.9 percent, the only

significant decrease, was more than offset by small increases in the other categories.

For Wire Transmission 3:00 P.M. E.D.T. Monday, November 2, 1981

The value of the orders backlog of manufacturers declined in September in \$0.6 billion or 0.2 percent to \$328.1 billion. Excluding the backlog of defense orders, manufacturers unfilled orders declined 1.2 percent. The pattern of change in the value of unfilled orders was mixed. Increases in aircraft and electrical machinery backlogs, both heavily influenced by defense orders, partially offset declines in many of the other major industry categories.

The book value of manufacturers inventories increased in September \$3.0 billion or 1.1 percent from August to \$276.4 billion. This is the largest one month increase since the 1.0 percent in February. Virtually all of the September increase occurred in the durable goods sector where inventories were valued at \$185.0 billion, up \$2.8 billion or 1.5 percent from August. Nondurable goods industries showed a small increase from August as a decline in petroleum product inventories was offset by increases in nearly all of the other categories. The inventory to shipments ratio for September is 1.63. The ratio in August was 1.61, in July, 1.60, and in June, 1.57, the low point this year.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for October is scheduled for release on November 24, 1981, and the full report is schedule for release on December 3, 1981.

A description of the survey methodology and related information may be found in the summary report in this series for 1980 M31.10 Manufactures Shipments, Inventories and Orders: 1972-1980, issued July 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

¹The seasonally adjusted estimate of shipments for motor vehicle assembly operations for the third quarter was revised upward \$0.8 billion or approximately \$0.3 billion per month. The seasonally unadjusted automotive data are not subject to any special estimating procedure:

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	FOLM .									t	-	+	†		<u>+</u>			
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	American de la gotta, m	100,000	100, 87	1 1 1 1		4.1,59	44.7.4X.	3	1.1.1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,	ľ		13 . 511	7 7	15 4, 1, 3	1, 544, 184	1 - 1
	untillied order	81,785	81, 1194	40,010	÷ .	ARP, 955,	. 164. 373	16., 7687	;	, x , z	, m	17,441	121,10	76 1.14	1,000	41. 3+3	100	11
	furrable goods rath trues.	80,140	81,541	27 1.1	, , , , , , , , , , , , , , , , , , ,	1 2 2 at.	Tal la.		N. A. S. A. S.	~ f, l = l	7	4	7.	71.	. 1	17. 001		V. 2004
	orders	11,414	3 1	1,,000	3,113	117, 30 3	£ 48	.111.113	1 m m 1 m 1	0	3	74 .1	114 11	6. , 4.13	21, , 13	1 6+ 5 +44	143,444	, 484
	Sond cable goods tridistrice	83,000	42,177	×3, 0 .	82, 7	248,641	. 4. 7 1	13.7.18	4, 10.4	216,316	17, 411	1. 13	·	20,	7 1, 161	1 . * 74 . 5	7.7. Sau	5. 30+
	orders	1., 4.1	10,00	17,3 3	11.424	11,411	*:	44 . 33	14,184	1,,	17	7	*	1 . 1	14.4.	34	151,5 6	131, 115
	MARKET CALLORITE		-															
	Hone y ods and appared,	12,475	28,432	5 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	29, 175	4.7 E.8 B.8 B.8 B.8 B.8 B.8 B.8 B.8 B.8 B.8 B	3. mg	3.6.	11,94.	1 2	7, 44	. 186.5	3	28, 327	10, 886 25, 894	11. 7.	111, 18.	23.302
	Equipment and detense products, where an automotive equipment	14,671	20,1144	14, 341	15,238	41, 181	24. 3ma	13, 18 th	11, 41	11,848	16 21	15,341	1	21 - 15 8, 814 5	8,783	4,880	227, 77x	204, 534
	Construction caterdals, supplies, and interactions products		3., 200	12,7	12, h tt	£ .	34 27 4	34.1.2	12,944	13, 41	110 21	2. a	1 1 1	17,713	11.348	11.461	111 .254	1.00 6.18
	Other materials, supplies, and intermediate products		28,630	1 , 944	15.74.	250,423	824 749	332,426	76,43	42 S 67.	64, 785	78,8,11	71,35	65.533	611, 54.2	147.747	172,452	A11,814
	SUPPLIMENTARY SERVES.																	
	Household durable goods infu- tries (apital goods industries Nondilenses	20, 16.2 20, 0.3 20, 0.3 20, 0.3 3, 0.3 4, 0.3 4, 0.3 4, 0.3 4, 0.3 5, 0	45 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3.85	28,71,	71,78 12,78 10,78	16,241 84,469 72,433	28.38	2 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	27,46	25, 580	3.7.7.9	2 0 7 7 1 5 5 7	4 4 6 6	25, 50 L	13, 310	25, 531 201, 445 27, C4	42,433 227,142 197,258
															-	7, 1,1,	50° 10°	100.
, 8558	Durable goods industries. Stone, clay, and plass. Front is. Takes containers. Priese rotals. Riset immares, even mils.	4,067 692 11,74.	4,004 443 11,481	67.34 11.9.11 1.9.23	4,207 046 11,810 5,17.	12,321	12, 680 1, 567 33, 325 18, 482	11,386 35, 21 17,86	4,381 522 11,654 5,951	4, 2888 515 11, 356 5, 421	18.16.1	5.00 4 5.00 5 5.00 5 5.00 5 5.00 17	4.71 4.71 11.08× 0.050	437 4 453	3, 536, 410 9, 137	5,871 435 10,369 4,293	47, 704 4,528 107, 410	33 3.0.13 4.0.43 4.0.43 4.0.43
	retals	4, 586 10, 199	4,720	10, 547	10, 591	13,976	13.414	14, 197	4,653 10,581	4,532 10,535	4, 701	4,789	14,286	4,621	4, 374	4, 522	41,484	85, 798
	Machinery, except electrical Employee and turbines	17,497	17, 34n 1,428 1,128	844 17, 373 1, 547 1, 264	810 17,303 1,304 1,306	2,440 51,813 4,392 3,828	2,488 50,914 4,101 3,800	2, b17 50, 128 3, 864 3, 514	17,961 1,479 1,398	969 16,244 1,320 1,085	9.2° 15, 46° 1, 258 1, 041	921 1,489 1,489	95,7 1,137 1,137 1,167	477 13,860 1,002 1,044	908 13,673 1,017	421 46.175 1,274 1,200	7,855 153,021 1.,370 11,605	7, 445 134, 701 12, 312 15, 380
	naterial han Hing equipment. Metalworking machinery	3, 395 1,015 1,438	3,473	3.318 955 1.491	3,315 958 1,410	10,186 2,967 4,399	9,856 2,910 4,282	9,619 2,957 4,071	3,480 1,054 1,468	3, 361 849 1,412	3,196 832 1,355	3,471	2,973	2,773 811 1,247	2,793	2,934	30,020 8,813 12,755	26,637 8,178 11,864
500	San tractment on the sand of their																	

ee lootnotes at end of table,

							(Millions	(Millions of dollars)	rs)									
				Seasonally	sally adjusted	pa						Not	seasonally	adjusted1				
			Monthly	hly			Quarterly					Monthly	у				hear to	date
SIC	Industry	***************************************	V	Today	Trimo	111		-		Last 4 m	months		Last	4 months a	s year ago			
		1981P	1981r	1981	1981	1981	1981	1981	Sept.	Aug.	July 1981	June 1981	Sept. 1980	Aug. 1980	July 1980	June 1980	1981	1980
	INDUSTRY GROUPS AND INDUSTRIES Continued																	
	Durable goods and industries																	
361,2	Electrical machinery	11,656	11,682	11,713	11,679	35,051	34,649	33, 101	12,325	11,402	10,351	12,330	11,169	10,263	9,150	10, 714	1 2,135	92,652
363	industrial apparatus	1,864	2,045	1,915	1,948	5,824	3,459	3,398	1,408	1,968	1,680	2.094	1,871	1,717	1,055	1,921	17,064	15,292
367	Communication equipment.		3, 277	3,364	3,239	9,897	9,507	8,893	3,355	3,140	2,947	3,480	2,944	2, 721	2,493	2,335	28,290	24.951
371	Transportation equipment		19,431	18,967	20,440	57,451 36,706	58,531	52, 732	18,497	16,547	16,373	21,924 14,397	17, 736	12,40,7	13, 142	14,807	167,042	39.835
3/2,0	parts	4,997	4,827	4,453	4,898	14,277	14,459	13,626	5,237	4,462	4,167	5.258	4,843	3, 579	3,902	4,339	42,252	36,961
3795	tank vehicles	1,216	1,261	1,204	1,190	3,681	3,520	3,405	1,236	1,208	1,132	1,229	1.084	1,034	1,024	1,091	1,351	5 mm 3
381-4	Scientific and engineering Photographic goods	4,305 2,519 1,508	4,205 2,512 1,416	4,308	4,257 2,459 1,496	12,818 7,494 4,464	12,495 7,208 4,367	12, 305 7, 145 4, 285	4,594 2,650 1,627	4,198 2,446 1,460	3.894	4.552 2.051 1.591	4,166 2,378 1,497	3,872 2,172 1,432	3,379	3,912	37,357	33,707 19.565 11,797
24 39	All other durable goods industries	7,814	7,860	8,493	8,483	24,167	25,524	24,938	8,594	8,411	7,756	8,984	8,691	7,888	6,903	7,581	74,708	69,023
20 201 208	Nondurable goods industries Pood and kindred products	22,495	22,453	22,638	22,676	67,586 17,294 8,934	67,307	66,528 15,690 8,629	23,397 5,758 2,965	22, 394, 5,817	21,057 5,367 3,198	23,171	23,002 5,186 2,907	22, 321 5, 161 3, 215	19,822	21.256	200,185 48,688 22,795	187,111
207			1,854	1.764	1.678	5,378	5,189	5,233	1,793	1,772	1,634	2,675	1,650	1,571	1, 495	1,368	15,730	13,924
21			1,186	1,195	1,154	3,592	3,283	3,287	1,190	1,218	1,186	1, 149	1, 328	3, 735	3,193	463	10,942 3F,668	34.57
26	Paper and allied products		6,446	7 812	9,392	19,551	19,354	19.379	2.954	6,658	0, 10h	5,720	5, 347		5.550	2,745	7 6.00	53.555
265	Paperboard containers		1,611	1,717	1,700	5,016	4,970	4,848	1,746	1,584	1,580	1,743	1.562	1.452	1,341	1, 483	14, 430	13.364
28 28 4	Chemicals and allied products		15,458	15,459	15,296	46,710	44.875	44,941	16,419	15,055	14. 180	16, 153	14,097	13, 185	12, 136	13, 763	148,620	124,041
283,4	cept pyweents. Drugs, soap, and totherries. Petroleum and coal products	5,367 4,124 15,937	5,374 3,781 16,405	5.471 3.007 15.859	5,456 3,780 10,357	16,212 11,572 48,201	16, 135 10, 998 48, 730	15,058 11,644 49,783	5,286 4,800 15,971	5,197 3,590 10,458	5,066 3,351 15,772	5,734	4,930	4,584 3,799 14,466	479 3.479 14.167	3, 873	34,245	4-,-80 33,286 136,989
20	Rubber and plastics products,	3,940	3,956	4, 129	4,074	12,025	11,886	11,419	4,056	4,040	3, 732	4,227	4,140	4, 106	3,573	3 930	35,8113	36, 169
27	All other mondurable goods industries	12,566	12,354	12. 736	12,308	17,661	30,304	35,480	13,612	13,08h	1123	12, 260	12,337	11 556	10,607	111, 4116	. x x x 2	37.69.
Ppr	Phone 1 me mann.																	

"Bippents and new orders are as of the end of the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are adjusted for

trading are regroupings of the separate industry categorise as follows

Numerical density are contracted and the regrouping of the separate industry categorise as follows

Numerical density where are regroupings of the separate industry actegorise as follows

Numerical density and the regrouping of the regrouping and articles and pottery, cutlety, handtools, and hardware, household appliance, readound the partial density of the separate products of a percent of the regrouping the management and management and orders were described in the regrouping and articles are product of an order of supporting and articles are firely large defense contractors. In the following industrial and article party, and orders were expected or separate products of supporting and articles are firely large defense contractors. In the following industrial and article party is no address were that the firely in the following in the following or phase or products of supporting the separate products or defense work that the firely is a product or product or product or the party of the separate products or defense where the party is a product or product or the party of the party or the party or the party or the party or the party of the

24,147 44, 184 133, 153 1 . 33,421 2h, 2h1 8,4% 17,7 172,430 23, 75 32,384 7,290 13,300 1, 2, 3, 4,247 3,529 4,883 2,88x 2,665 73°. 1,125 11,180 130 75.64 3,847 200 374 6. 4,386 7.1. 25,404 16,205 16,914 1,07 3,327 7 1 17. 48 2,701 115,747 31,224 50,334 7,200 4,11,12 17,440 15,970 84,644 71,650 18,044 13,634 30,592 11,171 4,568 seasonally all att t 5, n.2. 28, 186 23, 230 4,9% 3,856 5,51. 29,708 34,226 5,482 3,529 25,445 4,442 11,944 44,688 R. Jak 7,503 15,034 4,466 9,901 7,658 1,544 118. 71,548 25,265 5,208 29,527 22,724 5,803 3. , 786. 1,1,8 4.1,458 1,,309 3,992 11,346 6,023 4,326 9,887 17,137 1,563 3,355 738 1,320 75,897 Ourable goods industries
Stone, clay, and glass.
Primary metals.
Blast furnates, steel milts.
Nonferrous and other primary. onstruction materials, supplies, and intermediate products..... Manufacturing industries with untilled orders..... material handling equipment Metalworking machinerv..... General industrial machinery Fabricated metal products....
Machinery, except electrical.
Engines and turbines......
Construction, mining, and onsumer staples..... apital goods injustries..... Nondefense..... INDUSTRY GROUPS AND INDUSTRIES Orders.....Industries without unfilled orlers. except automotive..... All manufacturing industries. Manufacturing industries excluding transportation... SUPPLEMENTARY SERIES² metal products ... 32 33 331 333-5, 34 35 351 354 354 356

See footnotes at end of table.

TEALS 2. VALUE OF MANUFACTURERS! NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATHOGRIES, AND SPERMENTARY SERIES -CONTINUED

Millions of dollars)

				Seasc	Seasonally adjusted	ted						Not	seasonall	Not seasonally adjusted	-			
			Won	Monthly			Quarterly					Monthly	, A				Year-to-date	late
SIC	Industry	4000	Anne	fully	Time	111	-	-		La. + m	+ 4114144		Last	4 months a year	vear ago			
		1981p	1981r	1981	1981	1981	1981	1981	Sept. 19x1D	Aug, 1981	Julv 1981	June 1981	Sept. 1980	Aug. 1986	July 1980	June 1980	19 81	1981
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
36 361,2	Electrical machinery Electrical transmission and distribution equipment and	12,307	11,920	12,055	12,600	36, 282	36,281	34,371	12,606	11.699	10,517	12,951	10,815	10,829	9,054	10,512	106, 558	40,61
363	industrial apparatus	1,843	2,038	1,998	1,895	3,260	5,770	5,798	1.852	1.993	1,702	2,011	1,717	1,689	1,553	1,864	17, 549	15,6 48
365	Radio and TV.	666				2,903	2,754	2,845	1.081	1.111	798	1,217	913	910	704	782	8,244	n, 34n
367	Electronic components	2,143				6,950	7,405	9,811	2,227	2,328	2,045	3,771	2,918	3,340	2,665	2,275	31, 226	27,612
37.2.6	Transportation.equipment	18.894				59,922	57,848	55,886	19,612	15,960	16,949	20,146	20, 360	11,925	15,738	15,493	158, 725	144,41
27.01	parts	6,203	5,106	6,116	680,44	17,425	13,563	16,553	7, 488	3.571	4,776	4,218	5,857	3,259	4,514	5,513	44,170	48,558
3795	tank vehicles	310	1,954	1,417	865	3,581	3,390	3,740	898	1,519	10 L 5	808	2,154	1,284	1,030	545	11,055	11,51~
2	products	4,305	4, 152	4,425	4,333	12,882	12,540	12,330	4.547	4,164	4,010	4,083	4,120	3,874	3, 311	3,937	37 562	36,1157
25 39	All other durable goods	7,882	7,775	8,415	8,448	24, 072	25,563	25,586	8, 338	8,341	7,868	×,918	8, 385	7,924	4,962	7,443	75,545	69,(1)
Name and Address of the Owner,				3								-			-			

*Supernts and new corders are the totals for the period and are adjusted for trading—lay and valendar—nounth variations untilled orders and intensiveness are the very of the period and are adjusted for trading—lay categorius as follows:

*The supplementar series are regressionings of the separate industry categorius as follows

*The supplementar series are regressioning to the separate industry categorius and portery, cutley, handtools, and larchman, lonewhold durable goods industries—Household furnitair, kitchen articles and portery, cutley, handtools, and larchman are said on the periods, watches, and it is comediated. "Revised,

control person instructs despirable to the previous producers' control codes and the defense products of described machiners excellent nonestable applicances, table and 'th, and else from a community of the wideline and expensive and manufactured and structured in the previous and successful and structured produces of stabled distinct and expensive communities and expensive the produces of stabled distinct and expensive produces of stabled distinct and expensive controllers and the structured and

Table 3, AMP of White Trial Publish wolfds off published words, West CM to the Production of the

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			G	Jun-		3410,854	198,943	246, 348	1,258		ž.	177,938	17,40	106,691		3,3.5 200,278 145,349 59,929		2,597 25,966 13,709	8,309 30,685 72,064 17,520	8,070 7,938 6,608
			- conth. a year ago	riol.		248° + 5	144,357	. 94,272	10,000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	179,4,1	17,735	108,338	_	3,31,216,976		75,706 13,607	8,3.6 30,726 72,997 17,401	8,032 7,932 6,541
	-		tast 4 conth-	3ug.		309,411	1 49,4× 5	248, 74h	11,545		Spect to	178,65.	17,544	108,785		3,4,8 26,636 146,824 04,832		2,492 26,274 14,341	8,198 30,411 71,289 17,669	7,851
	** teonally aljuster!	Monthly	1.0	Sept.		31,364	195,00	3(6, 7)	10,744		4,307	181,231	17,761	108,065		3,270 211,521 146,291 65,230		26,397	8,162 29,835 72,032 17,852	7,986
		Mon		Juno		320,446	.11,346	314,468	11,475		4,9 9bt	191,639	17,805	112,636		3,884		29,197	8,509 30,309 75,725 18,142	10,989
	Vo.			F.I.s.	,	4364 037	211,3%	315,502	11,364		6.	191,588	17,903	111,969		221,738 147,243 74,243		28,562 17,088	8,436 30,661 75,762 18,008	11,311 6,208 6,626
				tur. 1991	1	425,134	210, 44	11,412	11, 421		· .	190,891	10,501	111, 167		4,1h7 221,185 14n, c39 74,52h		2,271 28,135 16,648	8,211 30,162 75,233 18,245	11,266 6,083 6,822
				opt.	•	111, 001	867 50	49.,733	12, 541		3	1,00,00	13,283	11,74		282, 208 146, 413		7,146 26,465 15,462	7,783 29,786 74,185 18,441	11,113 5,728 6,637
			. 1	- ř	,	515,427	24.7, 845	30.1, 36.4	111,000		77.	175, 71.	17,473	112,022		3,555 205,046 147,465 57,151		29,676 15,859	8,849 31,504 75,861 18,616	8,810 8,040 7,238
			:	144	•	5 + 14 84	14", 45	35 1 54.2	It , '44			122, 400.	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	101, 1035		2006,694 146,437 101,207		1000	4,719 30,749 71,914 17,825	7,986
of tellars		andered.		24		, ,116	20. , 13.	31 , 1 2 5	2, , . +		T.	145, 7.	17,3979	110,.70		3,084 214,413 147,380 67,1113		28,c10 15,74.	8,47th 24,800 7.,65t 17,864	8,141 7,661 6,287
P.111 20.5			-	13%		517,719	300 pesh	A 8, 415	10,413		EHP.	185, 476	17,547	111,277		216,038 147,659 68,355		30,,48	9,008 30,189 74,396 17,905	8,765 7,292 6,177
	A administra		-	1481		34 3g to 3	2 12 7 12	str, or	11, 05		, est	191,550	17,44	110,200		1,000 sess 1 147,923 1		18, 4.6	8,557 30,134 74,602 18,241	9,760
	Se, onally		lane	[24]		3, 5, 418	. It , 5	514,477	11,441		1 % of 1	14,9.5	17,002	111.,531		3,732 221,984 147,388 74,696		16,895	8,425 30,362 75,578 18,474	10,989
	;	-1	Tulk	1951	. —	328,206	710,750	314,854	11,353	-	4,932	192,756	17,752	112,645		3,728 223,533 147,583 75,952		2,287 29,090 17,105	8,544 30,620 74,885 18,188	11,299 6,233 6,606
		Mynth I	Ann	1981		128,737	210, 452	117, 30.9	11, 184		6(9)	194,278	17,407	112,170		1,708 225,006 147,712 77,294		28,708 17,075	8, 344 30, 091 75, 297 18, 303	11,380
			. tuent	19816		128,148	204,106	316, 041	11,167		4,724	192,774	17,418	113,245		3,573 225,497 145,709 79,788		2,174, 28,510 17,182	8,082 29,779 74,937 18,451	11,340 5,710 6,657
			Industry		TOTAES	VIII - adultac furting Industribles,	excloding transportation	Durable goods finfustrates	Non-durable goods industries	MARKET CATECORIES	Home goods and apparel.	except automotive.	and intermediate products	Intermediate products	SUPPLEMENTARY SERTIS?	Household durable goods indus- tries, tental goods industries. Nother goods industries.	INDUSTRY GROUPS AND INC. 3: RUL.	Durable goods indastries Stone, clay, and glass Primary metals Blass furnaces, steel milks.	Fabricated wetal products Machiner, except electrical Engines and turbitres	naterial handling equipment. Metalasirking machinery
) N															33	351	354

See footnotes at end of table,

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES - CONTINUED

(Millions of dollars)

					Seasona	Seasonally adjusted	P						Not	Not seasonally affusted	a 1 just red l			
			Mont	Monthly				Quarterly						Youthly	13			
	Industry group	Sept.	Aug.	July	June	I	ΛĪ	III	11	-		Last 4 months	onths		las.	Last 4 months a year	a year ago	
		1981p	1981r	1981	1981	1981	1980	1980	1980	1980	Sept. 1981P	Aug. 1981	July 1981	June 1981	Sept.	Aug. 1986	July 1986	June 1980
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries Continued Electrical machinery Electrical transmission and	51,358	50,707	50,466	50,124	767,87	47,225	45,819	45,341	44,505	866,06	50,718	50,420	50,257	45,599	45,953	45,387	45,483
	istribution equipment and ndustrial apparatus	8,449	389	8,475	8,392	8,361	7,967	7,905	8,027	7,735	8,429	8,485	8,460	8,439	7,888	8,042	9,063	338
	Communication equipment [lettroic Components.] Iransportation equipment	277	27,963 12,233 118,405	27,788 12,205 117,456	7.7	26,345 11,733 116,198	-	.7.7.7	22,802 12,695 108,540	22,090 12,854 105,687	28,305 12,110 116,005	27,575 12,392 114,889		27,407 12,390 114,900	23,463 12,220 11,60.	12,489	22,870 11,631 110,505	12,698 12,873 107,909
	Arreratt, missiles, and parts	93,654	92,449	92,166	90,504	91,299	88,371	90,466	85,924	80,345	91,585	89,733	90,625	90,015	88,614	87,600	88,020	8)4 (8
	tank vehicles,	16,951	17,859	17,166	16,953	16,478	16,087	15,421	13,490	13,549	16,785	17,123	16,811	16,975	15,341	13,769	13,519	13,513
	products	7,120	7,120	7,173	7,056	7,012	6,987	6,863	6,944	7,064	7,146	5,209	7,226	5,110	6,885	6,931	6,929	4,373
1	T. Comments of the Comments of																	

Preliminary. 'Revised,

Superers and new orders are the totals for the period and are adjusted for trading-day and calegiar-quith variations, untilled orders and inventories are of the end of the entity and are not adjusted for trading-day and

Southfallogist indigent sevent operators of the state of the series attachment to the previous produces' capital goods and the defense products of the series are accordingly as each leave the series of the series The supplementary series are regroupings of the separate industry categories as follows mission and hardware, household appliances, radio and 14 opathalric goods, waithes, and elects, and mission descending pools, opathalric goods, waithes, and elects, and mission descending pools.

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		Sept.	leglr leglr	1991	Item	1981	: :	1	3,42	- ž	5. p	Va	[148]	fune	Sept.	Vur 1480	bully 1 sec	Purs.
	PNTALS																	
	All wanut a turin, industries	:70. 547	215, 461	271,872	1 26 1 25		×,	*	10000	1,45	7 .	7	7.1, 68	23 2,2.8	754, 207	N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	270,220	7
	Nanufacturing indistrict	217,145	. Ca. 187.	. 37,423	× - 1		,1,1,	1,			† -†	,	7, 7 * 2	231,471	21-, 764	14 : 2	:	
	Manuf of Letiny industries with unfilled orders,	184,743	186,17,	185,230	184,00	12	174, 186	124,. 41	118,100	1, 1, 1,		150 . 413	186, 137	184,547	1,1,111	1.31.747	174,371	1,1
	larable goods industries,	135,776	140,221	lso, xf.	174,171	12,270	1,100	17, 723	100,000	2007		* *	18 . 581	11, 1, 11	1:8,4 %	170,245	170,144	100,744
	orders	11. 4, 477	11.6,1.65	1846,737	14., 421	14.000	1, , ,	1 1,000	******		,		15, 001	10 1, 414	1 4	1 2 2	154, "2	154, 147
	Nondurable goods industries	11,381	11,140	61,017	2 - 17	4. F				ī,	, ,	1	,	41,514	7 7 7 1	HS, hu 3	-	F. 1 . 1
	orders	1. 1. 24th	23,500	20,493	20, 215		11., 83-	1.4,4.4	19, 12	1.	,	x .	, £	, x,	,	14, 43	2	. 1154
	MARKET CATFOORIES																	
	tome goods and apparel	5,145	0.841	21,447	Made at the state of the state			1 3	1 .	1 1000	· · ·	1	11,35	11, 516	20, 215	20,864	21,154 30,514	21,750
una .	quipment and defense products except automotive		74,156	73,756	7.1, 241	11,411	7	H H H H H H H H H H H H H H H H H H H	7	54° 434			73,743	73,432	68,543	026,840	68,735	1,4
4 (utomotive equipment		11, : 44	11, , , , ,	H, Sto	111, 721	11, *7.	11, **	1	1., 984		1	Iv. 4ng	11,237	11,685	11,781	11,20.	11,402
	and intermediate products	23,022	22,7,7	22,013	22, 61.1	21,002	1	7		1,1.1	-		r pod - - -	ry, . 4.	20.387	j	50.00	21,133
	intermediate products	111, 333	109, 478	109, 852	108,438	ltto, rast	1. 2, 2	1. 2, 8	lud, 98c	Ito, 215	Territory.	10 × 73×1	109,677	108,801	100, 488	1 2, 99	103,393	103,735
	SIPPLIMENTARY SERVES								-					_				
	Household durable konds indus- tries. Capiral konds industries. Nundefense	10,757 84,459 72,048 12,841	10,674 88,722 71,054	10,444.	12. 42. 42. 42. 42. 42. 42. 42. 42. 42. 4	1 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H	1345	10 48 10 11 11 11 11 11 11 11 11 11 11 11 11	1 0 7 3 T	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ 46 P = 7 2 B	10, 55	12, 548 12, 835 12, 835	7, 74.5 7, 74.5 1, 330	10,211 76,886 66,393 10,463	10,264 76,48 76,44 10,239	10,542 71,811 85,951
	INDUSTRY GROUPS AND INDUSTRIES																	
32 32 33 33	Stone, clay, and glass products Glass continers. Primary metals	25,015 25,070 13,103	6,831 .16,41 .18,734	6, 578 578 23, 924 12, 554	5, 199 23, 134 12, 189	2. 4 400 A 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	21, 12, 23, 31, 31, 31, 31, 31, 31, 31, 31, 31, 3	1 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	4 114 12 55 111 12 55 111	, 534 503, 503 12, 48	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	18 4 A	5, 58t 599 23,914 12,493	7,681 608 23,398 12,168	5,807 564 21,699	5, 49. 52, 199	619 22,574 12,519	22 54 24 122 122 122 124 124 124 124 124 124
	Nonferrous and other primary metals.		10,268		9,819	4,563 19,812	4,802 19,773	8,564 14,395	8,484	8,577	21,265	10,14%	10,075	7,888 20,208	8,367	19,568	8,729	5,543
	Metal cans, barrels, and drums. Machinery, except electrical Engines and turbines	1,577	1,538 41,366 2,427 2,829	1,544 41,036 2,472 2,771	1,:71	1,137 39,618 2,423	34,189	34,726	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1,810 38,247 2,854 3,075	T x 7 3 3	5855	1, ent 40,865 2,425 2,727	1,753	1,365 39,166 2,421 2,974	1,557	1,786 39,723 2,463 3,134	2,449
	Construction, mining, and material-handling equipment. Metalworking machinery		9,082 2,717 3,836		8,789 2,636 3,753	2,454 3,603	8,446 2,760 3,561	3,45	8,766 2,833	8,416 2,703 3,569	1 3 2 3 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3,113	8,915 2,714 3,795	8,806 2,544 3,786	2,818 3,576	8,580 2,861 3,534	8,703 2,860 3,642	8, 84 2,842 3,570
e fo	See footnotes at end of table.				-													

					Season	Seasonally adjusted	7						Yot	t seasonally	A dd 1 18.1			
			Month1	1 v			3	quarterly.						Monthly	111			
	Industry	0	0.000	Today	Linno	-	11					Last + 1	conths		5	t a stable	1 N. 3. 1,	
		1981p	1981r	1981	1761	1,481	1980	1980	1980	1980	Sept.	Aug.	July 1981	June 1981	Sept.	1 th	1.1.	Tub.
	INDUSTRY GROUPS AND INIUSTRIES-																	
	Darable goods industries																	
	Electrical machinery	26,566	26,243	25,987	25,689	25,057	24,383	24,350	24,145	13,788	25, 305	25,259	25,105	21,173	24,106	24, 314	21 , 12 T	(F. 4.)
	distribution equipment and industrial apparatus		2 017	4,573	4,488	4,263	4,163	4,222	1,463	4,142	4,652	4,553	600,4	50.4		1,-21		Ť
	Radio and TV.		1,600	1,550	1,492	1,444	1,311	1,242	1,309	7,867	1,6,1	1,561	2.5.7	1,001	1, 47	245.2	1,343	: - :
	Flectronic components	39,189	4,844	4,844	4,735 58,728	4,550	4,557	4,450	34,422	4,253	34,141	4,844 39,110s.	38,534	4,571	1 5	1,436	34,21-	
	Notor vehicles and parts		9,088	181,85	24, 420	24,001	22,918	7,40%	20,100	10, 35%	4,443	9,323	25,327	24,75	. L. 4.3	31, 23	, t	4 .
	Shipbuilding and military tank vehicles		2,449	.,433	2,131	2,612	2,245	2,105	.,130	1, 4,2	5,63	.,488	2,.50		2.10	3	7	:
	Sepentation and employers Photographic goods	9,689	9,585	4,555 5,434 2,224	1,003	1,260	9,281	2,172	1,100	2,112	2,324	9, n11	9,545	1000	2, 46.5 2, 10.5 2, 10.5	. 1.5.5	1,35,1	
	All other durable goods andustries	14,883	14,857	14,715	14,34R	14,213	14, 161	14,175	13, 423	14, 40	14,703	14,763	14,,7	14,010	14,-1	14,2 0	15, 49.	14,63.
	Nondorable goods industries hood and kindred products West preducts	21,825	21,951	21,835	21,862	-2,237	22,325	2,138	2,003	21,377	23,426	21,417	5,138	20,774	22,273	.1.34.5	118.51	20,191
	Beverlet		3,733	3,705	3,743	3,909	3,855	3,771	1,840	1,138	3,776	3,573	3,553	1,539	1,740	1,532	1,719	3,800 I,734
203 6.9	Tobacco products		12,632	3,705	12,450	3,589	3,507	3,623	11,685	3,487	13, 181	12,604	11,886	3,403	13,1 h)	12, 54	5,184	3,334
	Textile mill products		8,445	7,308 8,429	2, hold	8,28n	1,380	7,518	1,650	0,000	n, 43n	2,574	4, 538	7 x	7,1403	K	1.1.	1, 1, 2, 1
	Pulp, paper, etc		3,122	3,051	3,018	2, 172	2,734	2,654	2,774	2,5,0	1,1184	3,124	2	5, 17.	2,84,1	4 4 4		1,
	W1 other paper containers		3,022	5,111	5,053	3,126	3,032	2,453	5,53	3,007	3,030	3, 147	3,1+3	5,10		1 -		7
	Industrial them allow pranate.		20,281	20,116	20,218	19,488	7 x x 2	13,473	14,.11	18, 148	14,832	57.16.72	1 4, 5 43	7.4.5	14.11.		- 11, 11,	
	[rugs soap and tiltries	5,775	5,941	b,844	5,539	5,819	0,244	1,2 m	1 C7		27.14	5,832	5, 4117	1 x 7				Ŀ
	Petrolous and a plant to the teacher and the property of the party of the period of th		9,320	9,404	, 4450	4,885	8,240	×,600	2,711	- 4 .	,	4777	1, 0.1		7	,		1
	u.v.v.u	5,687	5,624	5,4,77	5,034	5,538	5,274	5,232	2, 1, 15	5,36,	1	. , , 37	. m35		11 .	F.C.	7 7	
	All other nantarible grots refusitives.	15,314	15,038	14, 782	14,51	14,058	14,153	14,.43	14,241	21,121	11, 31,	1,447	× .	1 ., 7 3 %	***************************************	:	14, 17,	
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Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

		(2000	on season	illy adjabot	o duca,					
			Pe	rcent chang	es				Revisions ²	
	Me	onth-to-mon	th	Avera	ge monthly	rate of cha	nge 1	Year	Average	monthly
Item and industry group	Aug. 1981- Sept. 1981			Third quarter 1981	Second quarter 1981	First quarter 1981	Oct. 1980 through Sept. 1981	ago Sept. 1980	Sept. 1980 through Aug. 1981	Sept. 1976-1980
Shipments: All manufacturing industries. Durable goods industries. Nondurable goods industries	-0.2 -0.8 40.4	-0.5 -0.5 -0.4	-0.7 -1.6 +0.3	-0.5 -1.0 +0.1	+1.1 +1.4 +0.8	+0.4 +0.6 +0.2	40.6 *** 5 **! 5	0.8 0.5 1.1	0.3 0.4 0.4	0.3 0.2 0.4
Inventories: All manufacturing industries,	+1.1	#1,5	+0.8	+0.8	+0.4	+1.1	+0.6	0,,	0.2	0,2
New orders: All manufacturing industries [Aurable goods industries Nondurable goods industries	-0.9 -1.8 +0.1	-1.5 -2.6 -0.2	+1.0 +1.6 +0.4	-0.5 -1.0 +0.1	+0.7 +0.6 +0.8	+0.1 +0.1 +0.1	+0.5 +0.4 +0.6	0.7 0.3 1.0	0.4 0.6 0.4	0.5 0.4 0.6
Unfilled orders: Durable goods industries	-0.1	+0.2	+0.8	+0.3	+0.2	+0.4	+0.3	0.2	0.1	0.2

Nethod of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

(Dasca	OII DEMOCIA	aujuste	d data,					
Industry group	Inv	entoriess	hipments ra	tio	Unfil		-shipments backlog)	ratio ¹
Industry group	Sept 1981 ^p	Aug. 1981 ^r	July 1981 ^r	June 1981	Sept. 1981	Aug. 1981 ^r	July 1981 ^r	June 1981
All manufacturing industries	1.63	1.61	1.60	1.57	3.68	3.67	3.65	3,62
Durable goods industries. Stone, clav, and glass products. Primary metals. Fabricated metals. Machinery, except electrical Electrical machinery. Transportation equipment	2.15 1.72 2.17 2.01 2.40 2.28 2.06 2.25	2.10 1.71 2.04 1.94 2.40 2.25 1.99 2.28	2.07 1.56 2.00 1.90 2.40 2.22 2.05 2.22	2.01 1.57 1.98 1.89 2.33 2.20 1.89 2.26	4.41 0.61 2.47 3.16 4.65 4.41 10.83 1.65	4.37 0.64 2.40 3.13 4.68 4.34 10.54	4.36 0.62 2.43 3.16 4.74 4.31 10.93 1.67	4.30 0.63 2.42 3.10 4.72 4.29 10.16 1.66
Nondurable goods industries. Food and kindred products Tobacco products. Testile mall products Paper and allied products Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.c.	1.10 0.97 3.27 1.48 1.30 1.28 0.57	1.10 0.98 3.31 1.48 1.31 0.57	1.10 0.96 3.15 1.47 1.30 1.30 0.61	1.10 0.96 3.09 1.48 1.30 1.32 0.61	0.64 (X) (X) (NA) (NA) (X) (X) (X)	0.67 (X) (\) (NA) (NA) (X) (X)	0.66 (x) (x) (na) (na) (x) (x) (x)	0.68 (X) (X) (NA) (NA) (NA) (X) (X)

P_{Preliminary}. r_{Revised.} (NA) Not available. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, harrels, and drums. farm metalinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; todacco; appared and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and roubber and plastics products, n.e.c.

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Manufacturers' Shipments, Inventories, and Orders

OCTOBER 1981

M3-1(81)-10 For Wire Transmission 2:30 P.M. E.S.T. Thursday, December 3, 1981

U.S. Department of Commerce BUREAU OF THE CENSUS

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(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in October declined \$8.8 billion or 5.2 percent from September to \$159.6 billion, the Department of Commerce, Bureau of the Census, reported today. This is the third consecutive monthly decline in new orders, following decreases in August of 1.5 percent and in September of 1.0 percent.

New orders in the durable goods industries were down \$7.9 billion or 9.1 percent to \$78.4 billion. This is a larger decline than the 8.0 percent decrease reported earlier, and the sharpest one-month drop since the 9.4 percent decline recorded in December 1974. Orders for defense capital goods, which tend to be volatile, declined \$2.7 billion or 42 percent to \$3.8 billion. Excluding the decline in the defense category, total durable goods new orders were down 6.4 percent in October.

In the nondefense capital goods category new orders declined \$1.7 billion or 7.4 percent to \$21.3 billion, following a September decrease of 6.8 percent. Nearly all of the October decline was attributed to the nonelectrical machinery industries.

The declines in new orders were widespread across the individual durable goods industries. The largest decline was in the transportation equipment industry, where orders decreased \$2.6 billion or 13.7 percent to \$16.1 billion. The aircraft and parts industries were down \$1.8 billion, and the motor vehicles and parts industries were off \$0.9 billion. New orders for machinery, electrical and nonelectrical, were down \$2.1 billion and \$1.5 billion respectively. About one-half of the \$2.1 billion drop in the electrical category was caused by the decline in defense communication equipment orders. Continuing the declines in August and September, new orders for primary metals in October decreased 10.1 percent to \$10.3 billion.

Shipments of manufactured goods declined for the fourth consecutive month, with October registering a decline of \$4.1 billion or 2.4 percent to \$164.5 billion. This decline was somewhat larger than those in the preceding months. Within the durable goods sector, the motor vehicles and parts industries led the shipments declines, falling \$1.2 billion or 10.3 percent to \$10.7 billion. Since June of this year declines in shipments have averaged nearly 5 percent per month.

Shipments by the nondurable goods industries in October declined \$0.9 billion or 1.1 percent to \$81.5 billion. The

declines were widespread. The only increase in shipments was reported by petroleum refiners where an increase of \$0.3 billion or 2.0 percent to \$16.4 billion was recorded.

For the second month the value of manufacturers' shipments exceeded the value of incoming orders. The orders backlog of manufacturers in October fell \$4.9 billion or 1.5 percent to \$323.8 billion. This is the largest monthly decline since the 1.8 percent drop recorded in March 1975. Within the major industry groups the primary metals categories decreased \$0.8 billion or 2.8 percent to \$27.7 billion; the machinery industries declined \$1.9 billion or 1.5 percent to \$125.1 billion, and the transportation equipment industries dropped \$1.3 billion or 1.1 percent to \$116.7 billion.

The book value of manufacturers' inventories rose to \$278.4 billion, up \$1.7 billion or 0.6 percent from September. As shipments declined in the last several months, the inventory to shipments ratio had increased monthly from 1.57 in June to 1.69 in October. Virtually, all of the inventory increase was attributable to the durable goods industries which were up \$1.5 billion or 0.8 percent to \$186.7 billion. The value of inventories of nondurable goods manufacturers' changed little overall. Sizable increases in the chemicals and apparel industries were offset by declines in petroleum and food products inventories.

The October estimates of inventories by stage of fabrication showed finished goods increasing by 1.3 percent over September, work-in-process up 0.7 percent and no change in the value of raw materials.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for November is scheduled for release on December 22, 1981, and the full report is schedule for release on December 31, 1981.

A description of the survey methodology and related information may be found in the summary report in this series for 1980 M31.10 Manufactures Shipments, Inventories and Orders: 1972-1980, issued July 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDISING GRAFFS, WARRET CATROCKERS, AND SUPPLEMENTARY SHIESS

'illions of follars'

							reillions of	of follars										
				Season	Seasonally adjusted	- P	-					Not	seasonally	y adjusted1	-			
			Monthly	nlv .			quartir rlv					Monthly	у				lear-t-	- date
SIC	Infustry					===				Last 4 no	onths		last	months.	a year ago			
		1981	i dell'	1981	143	law]	1941 1941	1981	Set.	2 4 5 1 1 .	Aug.	July 1981	1.80	Sept.	Aug	16.1v	1991	7 7 7
	TOTALS								-	-								
	All manufacturing mulustries	164,663	168,581	14 4, 1H	170.3.4	108 4.1		100 100	1.0 744	11,7 010	550 AA	114,418	167,307	163,812	14.8.3	137,531	081,214	1,326 846
	Manufacturing industries excluding transportation	147,071	149,653	1 - 1, 0 8 7	1 1.3 ?	4	1, 68,	3.1ev			19,973	14 . 035	7 4 5	146,076	135,371	124,489	495,35	1,370,367
	unfilled orders	86,641	84,183	89,641	89,9701	. 68,81.	, 101, 373	, 4.5, 880	10,1:8	12,945	×7. ×7.	я1,378	×7, 450	86, 2JB	76,1591	70,690	885,538	799, 716
	Durable goods industries	82,458	86,174	× × ×	я7, 31 г	, h 3+4	191 141	111.11	3 1.8	500	к3, 181	7	* b. Y.23	83, 5, 73	71, 11, 119	12. 47.1	850 474	773 543
	Orders.	69, 176	21,216	72, 702	12 60 7	1877. 52	211, 8h3	211,.15	189 .		7 1554	65,432	11,3	64,614	60,803	16,573	710 024	646,507
	Nondurable goods industries	81,511	X	82,417	£3	, 48 08:	. 44, 751	2-3,145	· · · · · · · · · · · · · · · · · · ·	7	R3. 554	27,911	7 7 7	ж., 134	76.21+	74,151	×.0.240	753,253
	Orders	10,667	17,257	16,997	17,3 3	1 36,		44.133	7	18 000	17, 555	16. 446	[15, 443]	10,386	15,356	14, 122	158,914	153, 299
	MARKET CATECORIES		~	w														
	Home goods and apparel	11, 14,	1.217	12,40	12,722	\$ -3 -2 -3	37, 89	4 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* 7	11.018	13, 478	11.505	13, 278	12, 706 30, 216	11.821	10,088	288,161	271,775
	Equipment and defense products, except automotive	25,4/1	76,185	10,944	25,2 18	S 47 5	74. sha	74,184	94. 45	17 975	24, 748	23, 426	24, 150	24, 996	21,415	10,971	253,289	228,688
	Automotive equipment	1.,506	11,588	14,227	14,381	2 db 2 4			14.249	12,85.	11,848		14,800	12,661	8.514,	8, 783;	136,449	110,358
	and intermediate products	11,943	1., 410	12,289	1 ?	1	38 10.4	34,.02,	1, 58,	1 (1)	.3. n.!	12,516	13.44	12,878	12,213	11,3+8	128,048	119.448
	Intermediate products	24,888	-[n'n,	7 , 634	75,47	216,118	. Pu. 749	424 277	- 00	35, u.R.	74,528	64,802	12.220	70,355	65,533	10,542	751,81b	684, 344
	SUPPLEMENTARY SERIES?												_		_			
	Household durable goods infus- trics. (apital goods industries. Defense.	28,153	, 469 , 832 , 6, 608	28,992	28, 112 28, 15, 23, 931	15 112 12 112	27.22	15, 758 81, 803 70, 217 :	847 . 8. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	5 2 7 6	, , , , , ,	4,715 21,671 3,404	.749 .36, 487 .33, 189 3, 698	23, 709	23,049	23, 231 20, 058 3, 193	53,421 239,10 238,468	48,682 254,029 220,447 33,582
	INDUSTRY GROUPS AND INDUSTRIES						_											
32	Durable goods industries Stone, clay, and whose																	
322	products	3,911	4,024	4, 00%	4,250	12,278	12,680	12,597	4,230	4, 535	4, 288	4, 151	4,259	4,221	3,907	3,636	41,898	37,877
331	: =	11,080	11,609	11,981	11, 471	18,258	35,325 IR 482	35,521	11,208	11, 74	11.056	10,805	11,446	11,088	9,953	9,137	118.783 50.995	111,881
34	Monterrous and other primary metals.	4, 388	4,631	4,720	4, 567	14,018	13,454	14.197	4,463	10 6 71	4,532	4,144	4,825	4,984	4,621 9,41~	4,324	104,997	49,631
35	drums	16	17. 453	819	844	2. aul	2,488	2,617	1, 30,	17.814	969	925	822	16.316	977	908	8,622	8,768
351	Engines and turbines	1, 383	1,380	1,428	1, 264	5,817	3,800	3,884	1,336	1,441	1,321	1,258	1, 181	1,137	1,002	1,017	13,718	11,493
354 356	material-bandling equipment, Metalworking mechinery General industrial machinery.	3,388	3 375	3,473	3,318	2,989	9,856 2,910 4,282	9,619	3,425 1,011 1,565	3,459	3,361	3, 196 832 1, 355	3,004	2,973	2,773	2,703	33 424 9.847 14,304	29,641 9,169 13,317
See																-		

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES-CONTINED

							(Millions	of dollars	(8)									
				Seasonally	nally adjusted	pa						Not	seasonally	adjusted1				
			Monthl	hly			Quarterly					Monthly	A				Year-to-date	ate
SIC	Industry	100	-too	Ano.	Tuly	111	-	-		Last 4 mc	months		Last	4 months a	year ago			
		1981P	1981 ^r	1981	1981	1981	1981	1981	Oct. 1981	Sept.	Aug. 1981	July 1981	0ct. \$	Sept. 1980	Aug. 1980	July 1980	1981	1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
361,2	Electrical machinery	11,332	11,667	11,682	11,713	35,062	34,649	33, 101	11,906	12,339	11,402	10,351	11,459	11, 169	10, 263	9,150	114,055	104,111
192	distribution equipment and industrial apparatus	1,872	1,941	2,045	1,915	5,901	5, 738	5,404	1,901	1,191	1,968	1,680		1,871	1,710	1,556		18,170
365	Radio and Tv.	3.345	3 184	875	3.364	9,825	2,859	2,708	3,338	3,284	3,146	747		940	2,721	619		7,184
367	Electronic components	2,213	18,956	2,390	2,349	7,124	58,531	6,906	19,046	2,514	2,299	2,114	2,419	2,318	2,225	13,142	23.254	22,398
371	Notor vehicles and parts Aircraft, missiles, and	10,742	176,11	42,870	12, 390	14,218	14,459	13,626	4,480	5,177	4,462	4, 167		4,843	3, 579	3,902		41,578
3731	Shipbuilding and military tank vehicles.	1,184	1,151	1,261	1,204	3.616	3,520	3,405	1 262	1,172	1,208	1, 132	1,916	1,084	1,034	1,024	11 549	10,459
38	Instruments and related products	4,293	4,299	4,205	4,308	12.812	12,495	12,305	4,448	4,587	4,198	3,894	4,124	4,166	3,872	3,379	41,798	37,831
381-4	Scientific and engineering Photographic goods	1,414	1,486	1,416	1,540	4,442	4,367	4, 285	1,496	1,603	1,460	1,437	1,522	1,497	1,432	1,243		13,319
39	All other durable goods industries	7,961	7,985	7,860	8,493	24,338	25,524	24,938	8.604	8 780	8,411	7,756	8,820	8,691	7,888	6,903	83.498	77,843
20	Nondurable goods industries: Food and kindred products	22,115	22,421	22,453	22, 638	67,512	67,307	66,528	22.804	23,316	22,394	21,057	22,677	23,002	22,021	19,822		209, 788
201	Meat products	5,639	5,856	5,799	3,066	17,322	16,070	15,690	3,129	5,785	5,817	5,367	5,513	5,186	5,161	4,591	29 939	48,090 28,540
207		1,746	1,757	1,854	1,764	5,375	5, 189	5, 233	1,772	1,741	1,772	1,634	1,672	1.666	1,571	1,495		15,596
203-6,	Tobacco products	1,099	1,211	1,186	1, 195	3,592	3,283	3,287	1,164	1,190	1,218	1,186	1,167	1,028	1,100	1,073		10, 217
22	Textile mill products	4,039	4,427	4,414	4,496	13,337	13,012	12,481	6,568	6.690	4,430	3, 755	4, 106	4,075	5, 735	3,163		38,575
261-3	Pulp, paper, etc	2,843	3,042	2,820	2,812	8,574	8,480	8, 479	1.675	2.986	2,809	2,695	2,752	2,724	2,002	1.341		14,478
264	All other paper products	2,046	1,824	2,015	1,964	5.803	5,404	5,052	1,995	1,976	2, 105	1,851	1,903	2,061	1,901	1,728		18, 254
28 281,6	Chemicals and allied products industrial chemicals, ex-	15.246	15.484	15,458	15,459	07.4.00	44,875	44,941	000.01	10.0.0	15, 455	14.190	14, 331	14, 04	13, 103	10.17		7/0'007
283,4	Drugs, soap, and toiletries	3,81	3,934	5,374	3,667	16,229	16, 135	16,058	3,947	1,574	3,690	3,006	5, 124	4,930	3, 794	3,479	14,311	37,334
30	Petroleum and coal products	16,366	16,049	16,405	15,859		48, 730	49, 783	16,134	16.086	10,458	15,772	14,977	14,493	14. 455	14,167	162. 464	145,066
	n.e.c.	4.010	3.971	3,956	4, 129	12,056	11,886	11,419	4,218	4,087	4,340	3, 73.	4.344	4, 160	4,106	3,573	34,452	40,534
32.53	All other nondurable goods	111.11	12,247	12.359	12.736	37,392	36,304	35,4811	13,367	13,514	13, ORb	12, 123	12, 713	12, 337	11. 186	13,607	121 641	110,405
Pmed	Therese																	

rRevised.

Sangments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not admissived for

trading-day or calendar-month variations.
The supplementary series are regionaries industry categories as follows
The supplementary series are regionaries of turniture, kitchen articles and pottery, cutlery, handtools, and hardware; household applicances; ratio and TV: ophthabare goods, watches, and closes, and niscullaHousehold duranties pools and antictive kitchen articles and pottery, cutlery, handtools, and hardware; household applicances; ratio and TV: ophthabare goods, watches, and closes, and nisculla-

Capital goods industries—Comparable to the pressure produces "capital goods and the defense products todd series) categories,

And defense products—Capital Confidences, capital goods and the defense products to an animal and animal and animal components, and the products of subpullings and repairing and repliement, animal equipment, communication equipment, animal parts, and shipbullings.

The confidence products on defense work filled by Ingred defense confirations in the following industries. Ordinary comparable to those publication annually to the M. 175. Supports to prefer a forest confirmation in the confidence will produce the special confidence annually to the M. 175. Supports to prefer a forest confirmation in the confirmation of the confirmation o

4

							CMILLO	(Mallions of Jollars)	Mrs.									
				Seasc	Seasonally adjusted	par,						No.	Not seasonally	ly adjusted?	27			
			Non	Monthly			quarterly					Monthly	nly				hear-to-date	-date
SIC	Industry									Last 4 "	nonths		Last	4 months	a vear ago			
		Ucr. 1981P	Sept 1981	Aug. 1981	Jelv 1981	1+8,	1481	1981	JekiP	Jest I	Aug. 1941	fuly 1981	0et 1983	Sept.	Auk. 1980	July 1980	1981	1480
	TOTALS				- 10													
	All manufacturing industries	15,,612	168,444	170, 163	172.511	211,118	5 18, ×37	444, 733	148,346	17., 733	164, 741	155,831	170 029	165,21.	1+7,422	140,637	. 680,4	.,538,143
	Manufacturing industries excluding transportation	143,534	149,817	149,688	151,712	431,207	586 0 =	443, 887	1.8,.71	153,9	148,821	139 882	149.432	144, 455	135,497	124,899	1,496,546	1,370,541
	unfilled orders	81,784	89,046	90,244	42.2.7	271,547	164,845	2+4, 7 R	88,.14	41,660	86,135	81,801	43, 788	87, 403	75,758	73,701	889,742	811,013
	Durable goods industries	78,408	86,278	87,350	84, 696	243,324	203, 147	236, 383	85,533	87,507	41,487	79, 435	93 114	84,947	71,133	70,674	865,166	785, 098
	orders	65,426	72,015	73.211	75, 044	2.00,270	217,748	215, 134	71,080	73,824	54,845 F	65,970	74,314	70,888	60,327	59,777	720,816	658,012
	Nondurable goods industries	81,704	87,100	82.713	42.415	247,744	245, 196	.43,389	83,243	80,.26	83,294	17 796	80, 515	80,268	76, 289	69, 463	820,302	753.045
	orders	16,358	17,031	17, 133	17,213	11,277		227.42	17,130	17,842	17,290	15,831	14,474	16,715	15.431	13.924	168,974	153,001
	orders	64,846	65,135	15, 680	45, 70,	146, >17	194, 241	.43.64	1113	1,384	66,004	tl, 965	54, 541	63,553	6.1,858	56,039	651,325	6110, 044
	MARKET CATEGORIES													-				
	Home goods and apparel	11,659	17,221	12,353	24, 253	37,402	37,187	30, 744	2,8,27	13,443	13,463	11 782	13,541	12,550 30 239	11,927	10,089	124,061 288,374	112,848
	except automotive	23,451	25,302	27,503	26, 944	779,749	75 492	78, 32,3	26,712	12,030	24, 126	23,421	26,360	27, 411	20,789	22,390	257,841	240,413
	Construction materials, supplies, and intermediate products	11,386	12,273	11.944	12, 900	37,117	38,754	39, 324	11,315	12,817	12,659	12,615	13,573	12,555	12,012	11,180	127,699	118,526
	intermediate products	71,695	75,958	75,034	76,212	.27,204	227, 174	221, 355	72,926	75,904	73, 793	59,264	73, 278	69.635	086,34	62,189	750,850	685.957
	SUPPLEMENTARY SERIES ²								_									
	Household durable goods indus- tries. Capital goods industries. Nondefense.	4,844 25,128 21,319 3,809	5,388 29,580 23,026 6,554	30,459	29, 510 29, 708 24, 226 5, 482	16,150 89,747 71,452 17,759	16.347 86,133 71,818 14,315	16, 412 86, 099 70, 468 15, 629	23,282	5,894 31,002 23,705 7,297	26,883 22,640 4,243	25,741 21,673 4,068	5,508 29,324 23,492 5,832	5,416 29,435 23,176 6,259	5, 064 23, 209 19, 534 3, 675	4,068 26.899 21,264 5,635	54,097 286,726 236,670 50,051	48,693 270,259 223,930 46,329
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33 331 333-5 9	Durable goods industries: Stone, clay, and glass Primary metals Blast furnaces, steel mills Nonferrous and other primary.	3,953 10,269 >,140	3,897	3,967 11,602 6,082	4,246 12,466 6,436	12,110 35,490 18,540	12, 686 34, 954 18, 453	12, 425 34, 228 17, 291	4,230	4,157 10,558 5,266	4,196 10,830 5,482	4,165 10,471 5,353	4,252 12,712 6,373	4,126	3,809 10,521 5,124	3,629	41,693 115,353 59,357	37,675 110,254 50,702
34 35 351	E 2	3,996 9,309 16,014 1,420	4,348 10,054 17,498 1,538	4,466 9,901 17,658 1,544	4,842 10.804 16,376 1,261	13,656	13, 322 31, 877 51, 889 4, 335	13,746 31,223 50,334 4,200	4,093 9,734 16,625 1,633	4,248 10,371 17,264 1,650	4,307 10,033 16,214 1,556	4,071 10,954 15,001 1,724	5,182 10,867 16,211 1,404	4,948 9,710 16,059 1,320	4,513 9,099 13,152 1,270	4,321 8,491 14,606 898	45,113 104,099 170,660 14,352	49,584 95,656 149,374 10,992
354	material-handling equipment. Metalworking machinery General industrial machinery.	3,090	3,338	3,553	3,629	16,520 2,267 4,504	11,085	10,615 2,701 4,198	3,266	3,310	3,317	3,517	3,311 866	3,108	2,592 635 1,160	2,665	35,633 8,116 14,896	29,572 9,322 12,614
6																		

See footnotes at end of table.

				Seasor	Seasonally adjusted	ted						ON	t seasonal	Not seasonally adjusted 1	'd1			
			Monthly	hly			Quarterly					Monthly	ılı				Year-to-date	-date
SIC	Industry	400	4	A 11.00	Trd.	E	H	-		Last 4	4 months		Last	4 months	Last 4 months a year ago			
		1981P	1981r	1981	1981	1981r	1981	1981	Oct. 1981P	Sept. 1981r	Aug. 1981	July 1981	0ct.	Sept.	Aug. 1980	July 1980	1981	1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery	10,400	12,487	11,920	12,055	36,462	36,281	34,371	11,294	12,818	11,699	10,517	12,135	10,815	10,829	9,054	118,164	108,745
26.2		1,490			1,998	5.937	5,770	5,798	1,543	1,911	1,993	1,702	1,975	1,717	1,689	1,553	19.251	18,663
365		599			654	3,083	2,754	2,845	705	1,293	1,111	7798	746	913	910	509	9.161	7,293
366	Communication equipment	3,024	4,045	3,451	3,609	11,105	7,405	9,811	3,638	3,985	3,210	3,045	3,796	2,918	3,340	2,665	34.763	31,608
37	Transportation equipment	16,073			20,909	59,911	57,848	55,886	20,525	19,284	15,960	16,949	21,197	20,360	11,925	15,738	188.923	167,602
	parts	3,788	5,617	5,106	6,116	16,839	13,663	16,553	6,215	6.510	3,571	4,776	5,891	5,857	3,259	6,514	49.807	677,449
3795	tank vehicles	965	595	1,954	1,477	3,966	3,996	3,796	1,931	1,229	1,519	896	1,370	2,656	1,284	1,030	12,428	12,888
20	products	4,338	4,245	4,152	4,425	12,822	12,540	12,330	4.470	47.480	4,164	4,010	4,067	4,120	3,874	3,311	41,971	38,104
24 39	All other durable goods	8,052	8,048	277,7	8,415	24,238	25,563	25,586	8.412	8,569	8,391	7,868	8,673	8,386	7,924	6,962	84,288	77,688

Ppreliminary.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-mouth variations, unfilled orders and inventories are as of the end of the period and are not adjusted for redained-mount variations.

²The supplementary series are repropunges of the separate industry categories as follows

Bousehold darable goods industries—'Richem articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, ophialnic goods, watches, and 'lines and include and two policies and portery.

neous personal goods.

Capital poods underte-admonate the previous producers' capital goods and the defense products fold series) categories.

Robatelase products-admonates, except electrical textluding fram machinery and equipment and machine alongs), electrical nachinery (excluding household appliances, radio and IV, and electronic components), and the nonfederase protucts of a partial engineers, engagined and abstract and attentify parts, and ordinance.

Defense products-almed on separate reports on defense over filed by large defense contractors in the following industries, defance, compute and alternative parts, and shiph-liding.

The data are comparable to those published annually in the Wa-175. Shipments to Federal Government Agentes. (formerly Shipments of Interestries), its 'ny specifical nountries.

							fallions of follars	of follars										
					seasonally	lly adjusted	to the						Not	seasonally adjusted ¹	v afjuster	*		
			Non	Monthly				quarterly						Wonthly	1.0			
SIt	Indastry							I		-		I as a mo	months		Last	t + months	a vear ago	
		oct 1981P	Sept _F 1981	Aug. 1981	July 1981	11 1981	1961	1980	1111	118)	Oct. 1981	Sept 1981r	\ 19.81	July 1981	0ct 1980	Sept 1480	Aug 1980	July 1980
	TOTALS														-		. —	
	All manulacturing industries	123,753	328,613	328,757	328,206	125,918	323,602	319,729	75,027	106,494	3, 1, 416.	2.5.0 m	325,133	326,866, 314,186	314,186	310,864	309,461	109,862
	Manufacturing industries excluding transportation	207,008	. 10.540	210,352	210,750	210,403	207,405	206,586	200,514	197,955	2 14.545	£ ++ ; ;	210,244	211,390 2	200,030	148,262	199,483	199,357
	Durable goods industries	906'. 16	117,460	117,369	316,853	314,477	312,598	108,815	304,133	295,750	111.181	11 77+	313,812	315,502 3	333,361	300,070	298,796	299,272
	Nondurable goods industries	10,847	11,153	11, 388	11,353	11,441	11,005	10,913	10,895	10,744	10,785	7 =====================================	11,321	11,364	10,825	10,794	10,665	10,590
	MARKET CATEGORIES																	
	Home goods and apparel	4.575	4.9.1	4,902	4,922	4,854	4,664	3,988	4,085	4,215	, 45	* Co	5,372'	5,278	4,046	4,307	4,440	4,318
	except automotive	191,145	193,198	194,278	192,756	140,926	191,324	186,876	183,272	177,896	191.577	190,167.	190,893	191,588 1	183,629	181,231	178,652	179,421
	Construction materials, supplies, and intermediate products	17,013	17.371	17,407	17,752	17,607	17,409	17,587	17,399	17,749	T T T T T T T T T T T T T T T T T T T	17 21.	17,501	17,903	17,394	17,261	17,584	17,785
	Other materials, supplies, and intermediate products	111,026	113.213	112,170	112,776	112,531	110,206;	111,277	110,270	136,635	136,923	110 785	111,367	112,097 1	109,117	108,065	108,785	108,338
	SUPPLEMENTARY SERIES'																	
	Household durable goods indus- tries. Opinial goods industries. Nontefense. Defense	3,410 222,730 143,707 79,923	3,735 225,758 146,126 79,632	3,708 225,006 147,712 77,294	3,728 223,533 147,581 75,952	3,732 221,984 147,288 74,696	3,628 220,323 147,924 72,398	2,954 216,028 147,673 68,355	3,084 214,413 147,300 67,113	3,220 206,684 146,477 60,207	3.878 333.132 144.177 78.955	4,006 342,313 144,925 77,388	4,167 221,165 146,639 74,526	4,076 221,738 2 147,243 1	3,029 213,958 146,594 67,364	3,270 211,521 146,291 65,230	3,428 209,636 146,824 62,812	3,312 209,976 147,605 62,371
	INDUSTRY GROUPS AND INHIBITALIES																	
32 33	Dura St Pr	2.165 27.710 16,602	2,124 28,521 17,168	2,250 28,708 17,075	2,287 29,090 17,105	2,292 28,595 16,897	2,288 28,955 16,926	2,460 30,248 17,439	2,426 28,010 15,742	2,531 25,487 13,258	2,093	2 345	2,273 28,135 16,648	2,365 28,862 17,088	2,390 27,823 15,583	2,397 26,557 14,640	2,492 26,274 14,341	2,590 25,706 13,607
333-6,9 34 35 351	Z X	7,670 29,179 74,459 18,451	8.062 29.856 75,440 18.413	8,344 30,091 75,297 18,303	8,599 30,620 74,885 18,188	8,425 30,362 75,578 18,474	8,557 30,134 74,602 18,241	9,008 30,189 74,396 17,905	8,476 29,800 72,650 17,864	8,219 30,749 71,914 17,825	7.393 29.099 74.099 18.700	7,754 29,861 24,680 18,403	8,211 30,162 75,233 18,245	8,436 30,661 75,262 18,008	8,519 29,873 72,000 18,075	8,162 29,835 72,032 17,852	8,198 30,411 72,289 17,669	8,306 30,726 72,997 17,401
353 354 356	Construction, mining, and material-handling equipment. Metalworking machinery General industrial machinery.	11,046 5.502 6.724	11,343 5,736 6,669	11,380 5,987 6,775	11,299 6,233 6,606	10,989	9,760	8,765 7,292 6,177	8,141 7,661 6,287	8,062 7,986 6,615	10,957 5,519 6,683	11,116 5,753 6,649	11,266 6,083 6,822	11,311 6,208 6,626	8,293 7,559 6,190	7,986 7,684 6,274	7,851 7,756 6,454	8,032 7,932 6,541

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES - CONTINUED

(Millions of dollars)

					Seasona	Seasonally adjusted	p						Not	Not seasonally adjusted	adjusted			
			Monthly	hly				Quarterly						Monthly	1.4			
SIC	Industry group	Oct.	Sept.	Aug.	July	H	н	ΔI	111	11		Last 4 mc	months		Las	Last 4 months a year	a year ago	
		1981 ^P	1981 ^r	1981	1981	1981	1981	1980	1980	1980	Oct. 1981	Sept. 1981	Aug. 1981	July 1981	0ct. 1980	Sept. 1980	Aug. 1980	July 1980
	INDUSTRY GROUP AND INDUSTRIESContinued																	
	Durable goods industries																	
36	Electrical machinery	50,591	51,526	50,707	997,05	50,124	48,494	47,225	45,819	45,341	50,582	51,197	50,718	50,420	46,275	45,599	45,953	45,387
	distribution equipment and industrial apparatus,,,,,,	8,046		8,469	8,475	8,392		7,967	7,905	8,027	8,050		8,485	8,460	7,985	7,888	8,042	8,063
363		322		389	415	433		411	451	319	302		417	455	3.89	451	395	345
365	Radio and TV	465		687	707	378		346	422	917	532				677	567	522	411
366	Communication equipment	12.105	12.042	12.233	12, 205	12,207	11,733	12,019	23,863	12,802	11.947	28,276	27,575	27,505	24,364	23,463	23,489	22,870
37	Transportation equipment	116,745		118,405	117,456	115,515		113,043	114,513	108,540	117,371				14,156	112,602	109,978	110,505
372,0	Aircraft, missiles, and	92,360	93,126	92,449	92,166	90,504	91,299	88,371	997,06	85,924	92.804	91,068	89,733	90,625	888,888	88,614	87,600	88,020
3731	Shipbuilding and military tank vehicles	16,714	17.303	17,859	17,166	16,953	16,478	16,087	15,421	13,490	16,950	17,180	17,123	16,811	15,695	15,341	13,769	13,519
38	Instruments and related products	7,113	7,067	7,120	7,173	7,056	7,012	6,987	6,863	776"9	7.114	7,091	7,193	7,226	6,828	6,885	6,931	6,929
39	All other durable goods	4,944	4,853	4,791	4,876	4,955	4,915	4,267	050,4	4,244	4.804	4.997	5,209	5,230	4,016	4,163	897,4	4,432

Skinements and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are of the end of the period and are not adjusted for trading-day and calendar-month variations, unfilled orders and inventories are of the end of the period and are not adjusted for trading-day and calendar-month variations.

Copical posts indextries—Comparable to the previous produces, capital goods and the defense products (old series) categories.

Nondefense products—Amenhead occurrent for an advance of the comparable of the comp day or calendar-south variations.
The supplementary series are regroupings of the separate industry categories as follows:
The supplementary series are regroupings of the separate industries—Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries—Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV. ophthalmic goods, watches, and clocks, and miscellaneous personal goods.

Willias taulars

					Tours of	a second of the second				-								
					, tasilla	ally bridgett	- re-commercial day						You	seas shally and	a negrouped a			
			Monthly	11.0			מלי	Quarterly						Vonthly	111			
-	Industry	Oct.	Sept.	Auc.	July		2-1	Al	111	11		F + 453	Topic Transport		Last	square = 1	a year ago	
		1981P	1981 r	1981	1981	1981	1981	1980	1+80	1980	Oct. 1981P	Sept 1981	Aug 1981	July 1981	0et 1980	Sept. 1980	Aug 1980	July 1980
	TYNTALS																	
	All manufacturing industries	28.5.	276,516	273,361	271,872	269,709	266,524	257,980	256,835	156,421	* * * * * *	1104	272,545	271,008	254,257	254,207	255,938	256,220
	cluding transportation	238,235	257,192	234,666	232,923	231,081	228,413	221,170	221,393	221,992	237,868	1,34,522	233,539	232,474	218,438	218,769	220,501	222,002
	unfilled orders	191,044	189,850	186,695	185,230	185,036	180,275	174,756	173,231	173,188	184 265	Те, н.	186,463	186,037	100,071	111,511	173,797	174,371
	Durable goods industries	186,679	185,140	182,221	180,855	178,676	176,229	171,603	170,163	169,769	184 .44	1× × × × 5	181,467	180,681	167,617	168,308	170,295	170,144
	orders	170,696	164, 127	166,195	164,737	162,821	169,227	155,430	153,486	153,669	lox, 8, .	15 54	166,135	165,061	152,138	152,535	154,204	154,572
	Nondurable goods industries	41,678	41,476	91,140	91,017	41,033	90,295	86,377	86,672	86,652	91,540	40,804	90,578	90,327	86,640	668, 88	85,643	86,076
	orders	20,948	20,823	20,500	20,493	20,215	20,047	19,326	19,245	19,520	20,435		20,828	20,976	18,763	18,976	19,593	19,799
	MARKET CATEGORIES													_				
	Home Koods and apparel	33,162	21,382	21,881	21,637	21,410	21,201	20,663	20,395	30,706	.1 6 %	53 24.	22,252	22,338	19,772	20,215	20,844	21,156
	Equipment and defense products, except automotive	75,946	75,148	74,156	73,756	73,240	71,400	69,908	69,288	67,787	57.7	74 376	73,839	73,743	68,857	68,543	68,940	68,733
	Construction materials, supplies,							4	000444	2 4 4		11,000	11,000	004,04	104,44	600,411	70/677	11,200
	and intermediate products	23,014	33,006	22,727	22,613	22, 193	21,602	21,266	20,809	20,999	.2 473	die ale	22,441	22,517	20,210	20,387	20,724	20,923
	Intermediate products	112,024	111,624	109,998	109,352	108,478	107,666	102,070	102,767	103,380	110 633	104,886	109,738	109,677 1	100,634	100,988	102,094	103,393
	SUPPLEMENTARY SERIES																_	
	Household durable goods indus- tries. Capital goods industries. Nandefense.	10,986 85,892 72,826 13,066	10,719 85,074 77,055 13,019	10,674 83,742 71,053 12,689	10,446 83,283 70,602 12,681	10,250 82,376 69,676 12,700	10,236 80,456 68,473 11,984	9,992 78,245 67,224 11,021	9,480 77,469 67,021 10,447	10,198 75,420 65,672 9,749	10.643 H5.206 7.240 12.466	10 566 84 245 71,321 12,924	10,818 83,562 70,719 12,843	10,657 83,469 70,527 12,942	9,662 77,119 66,501 10,618	9,845 76,705 66,330 10,375	10,211 76,856 66,393 10,463	10,264 76,688 66,449 10,239
	INDUSTRY GROUPS AND INDUSTRIES																	
32 322 33	During S	7,070 657 25,300	7,037	6,831 615 24,412 12,734	6,642 578 23,926 12,556	6,599 595 23,334 17,169	6,398 608 23,640	6,145 593 21,976	6,016 584 22,022	6,189 611 22,555	6.753 645 25,002	6,792 24,709	6,738	6,680 599 23,914	5,788 577 21,665	5,807	5,990 612 22,199	6,175 619 22,579
333-6,	Nonferrous and other primary metals.	10,633	10,511	10,268	10,016	9,819	9,563	8,802	8,564	8,484	10,431	10,270	10,165	10,076	8,464	8,367	8,459	8,729
35 351 352		1,651 42,105 2,619 2,639	1,578 42,017 2,585 2,712	1,538 41,366 2,427 2,829	1,544 41,036 2,472 2,771	1,571 40,342 2,423 2,749	1,637 39,618 2,423 2,801	1,744 39,189 2,474 2,774	1,578 39,726 2,457 3,127	1,732 39,514 2,522 3,148	1,405 41,506 2,581 2,452	1,362	1,507 41,038 2,397 2,735	1,660 40,866 2,426 2,727	1,376 38,663 2,396 2,800	1,365 39,166 2,421 2,974	1,557 39,484 2,429 3,096	1,786 39,723 2,463 3,134
354 356	Construction, mining, and material-handling equipment. Metalworking machinery	9,446	9,213	9,082	8,951 2,719 3,787	8,789 2,636 3,753	8,469 2,624 3,603	8,446	8,650 2,855 3,627	8,766 2,833 3,637	9,220 2,569 3,936	9,066 2,713 3,818	8,955 2,717 3,810	8,915 2,714 3,795	8,409 2,817 3,523	8,512 2,818 3,576	8,580 2,861 3,634	8,703 2,860 3,642
Spo	State for the at the section of		-			•	-	-	-	-	-	-	-	-	-	-		

										-								
					Seasonally	lly adjusted							Not	seasonally	y adjusted			
			Monthly	,			Ö	Quarterly						Month	13.9			
310	Industry	to	- Cont	Δυσ	Tula	=	-	2	111			Last 4 m	onths		Last	4 months	a year ago	
		1981 ^p	1981	1981	1981	1981	1981	1980	1980	1980	Oct. 1981	Sept. 1981	Aug. 1981	July 1981	0ct.	Sept. 1980	Aug. 1980	July 1980
	INDUSTRY GROUPS AND INDUSTRIES	-																
	Durable goods industries==			_														
51,2		26.851	26,517	26,243	25,987	25,689	25,057	24,383	24,350	24,145	26,475	26,256	26,259	26,165	24,112	24,104	24,314	24,504
~	distribution equipment and industrial apparatus	4,810	4,744	4,593	4,573	4,488	4,263	4,163	4,222	1,943	4.767	1,928	1,994	4,558	4,165	4,162	4,221	4,293
200	Radio and Typerameter	1,733	1.064	1,600	1,550	1,492	1,444	1,311	1,292	1,309	1.678	1,656	1,681	1,622	1,251	1,287	1,383	1,383
7	Flectronic components	4,978	4.874	4,844	678,47	4,795	4,560	4,557	4,450	4,422	4.923	4,864	4,844	4,887	4,441	4,437	4,456	4,459
	Transportation equipment	9,379	9,316	9,088	9,397	9,275	9,605	9,694	9,446	9,865	9,446	9,476	9,321	8,788	9,387	9,571	9,635	8,967
31.0	Aircrait, missiles, and parts Shipbuilding and military tank vehicles	26,031	2,596	2,449	2,433	2,636	2,612	2,265	2,105	2,130	2,780	2,671	2,488	2,550	2,234	2,165	2,198	2,219
7-1	Instruments and related products	9,661	9,738	9,585	9,569	9,603	9,380	9,281	9,037	8,994	9,524	9,658	9,611	9,645	9,009	8,965	9,103	9,121
9	Photographic goods	2,312	2,342	2,251	2,224	2,247	2,259	2,243	2,172	2,135	2,259	2,323	2,305	2,284	2,145	2,155	2,203	2,194
	All other durable goods industries	14,831	14,880	14,857	14,715	14,508	14,213	14,046	14,175	13,923	14,501	14,699	14,763	14,667	13,808	14,010	14,200	13,932
	Nondurable goods industries: Food and kindred products	21.527	21,826	21,951	21,836	21,862	22,237	22,325	22,368	21,263	22,667	21,913	21,417	20,818	23,642	22,273	21,389	20,811
1 89	Beverages	3,932	3,863	3,733	3,705	3,743	3,909	3,866	3,770	3,895	4,014	3,836	3,573	3,553	3,868	3,740	3,589	3,645
)7)3- h. 9	Fats and oils	1,586	1.696	12,632	12,564	12,456	12,476	2,055	12,480	11,885	13,301	13,067	12,606	11,886	2,351	1,767	12,564	11,719
	Ţ	4,043	3,966	3,931	3,765	3,570	3,689	3,507	3,628	3,507	4,087	3,906	3,605	3,351	3,708	3,566	3,281	3,184
	Paper and allied products	9.681	8.588	8,445	8,429	8,332	8,286	7,798	7,818	7,866	8,549	8,424	8,494	8,538	2,910	7,668	7,893	7,897
1-3	Pulp, paper, etc	3,216	3,123	3,122	3,051	3,018	2,972	2,794	2,894	2,779	3,179	3,070	3,120	3,062	2,862	2,845	2,866	2,817
5 3	Paperboard containers	3,132	3 128	3,022	3,111	3,059	3,126	3,032	2,953	2,993	3.086	3,038	3,047	3,143	2,890	2,870	3,009	2,098
	Chemicals and allied products	20,754	20,363	20,281	20,176	20,218	19,488	18,489	18,478	19,211	20,332	19,956	20,025	19,993	18,035	18,114	18,282	18,733
9.1	Industrial chemicals, except	6,863	0.810	6,856	6,849	6,961	6,693	6,244	6,200	6,714	5,767	6,708	6,808	6,856	6,037	6,107	6,201	967'9
3,4	Drugs, soap, and tolletries	6,046	5,867	5,941	5,823	5,839	5,819	5,612	5,596	5,587	6,6,0	5,791	5,947	5,905	5,560	5,523	5,572	5,612
	Rubber and plastics products	798.9	9,206	03046	1000	0,230	000 %	01140	0000	11/10	2007	0000	47416	1000	6,000	0,740	0,000	roo to
	n.e. o. e. u	5 670	5,703	5,624	5,677	5,634	5,538	5,279	5,232	5,603	5,508	5,592	5,537	5,638	5,125	5,131	5,181	965,5
	All other nondurable goods infustries	15,434	15,182	15,038	14,982	14,817	14,656	14,353	14,243	14,241	14,943	15,181	15,497	15,750	13,910	14,244	14,704	14,976
Ppre	Ppreliminary. Revised.												-					

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Abligments and new orders are the totals for the period and are advanted for trading-day and calcudar-month variations; untilled orders and inventories are as of the cond of the period and are not adjaced for trading-day or adjaced as a follows:

"The supplementary series are recompanies of the separate industry citegories as follows:
Havsehold durable poods industries—Havsehold furniture, kitchen articles and puttery, cutlery, handrools, and hardware havsehold durable poods industries—Havsehold furniture, kitchen articles and puttery, cutlery, handrools, and hardware havsehold durable poods industries—Havsehold furniture.

ensectioners, personal goods.

(Spiral power) and structure compared to the previous producers capital goods and the defense products of solds.

(Spiral power) and structure compared to the previous producers capital goods and endinery described to the previous of shipportial (excluding form matching) and the model and arteral fortis, and ordering and relational engineers and engineers, and engineers and engineers and engineers and engineers are engineers of engineers of engineers of engineers of engineers of engineers of engineers of engineers of engineers of engineers of engineers of engineers of engineers of engineers of engineers of engineers of engineers. The data are commanded in the WEBS of the engineers of engineers of engineers of engineers of engineers of engineers.

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TABLE 5. VALUE OF WANTEACHERRYS INVENTMENTS, IN STAGE OF FARENATION, BY INVESTED GROUP. TABLE 5. 1 . TABLE 5.

		July	00	Sh, 220	170,14u	14,892	34,723	34,218	13,432	86,076	8,803	53,046		89,457	2,358	4,131	11,384	7,557	2,705	25.055	2,330	23,262		89,743	75,850	8,415	17,599	21,803	3,345	13,893	2,613	7,866	77.020	39 892	2,936	4,712	10,740	3,976	5,140	37,128 8,803	3,860 2,351	PIT '77	
		Var. July	-		5,440									88, 293	2,296	4,056	1,218	7,430	2,712	4.220	7,215 2,178	2,128		10,782	6,933	8,293	7,803	12,08/	3,396	13,849	2,631	7,813	6.863	280	2,848	4,611	4,797	4,158	5,239	8,538	2,177	22,833	
		Sept			5,807 IV																7,300								3,858												2,104		
adiaste.		Dot S	-		5,788																7, 109								3,241												3,672		
was nally	W nthly	July	1000		6, 680									43,289	56,786	4,014	11,260	7,836	2,924	16.503	8,098	23,531		97,073	82,433	9,438	18,014	13,420	4,170	14,640	2,734	8,186	80 646	040 000	3,044	2,462	11,592	3,756	5,475	39,184	2,213	23,378	
2		446			6,738									12,407	2,650	9,105	11,167	7,891	2,845	15.457	7,841	2,308		97,942;	83,253	4,716	18,384	13,406	3,494	14,679	2,687	8,238	99 696	72 767	3,113	4,778	11,487	3,882	5,487	39,942	2,175	23,883	
		last a sept	7007		123, 141	X 1 1 1	7 - 1	34,378	1 f 7 L 1	911, 8119	4,53	10,000		4.5,	2,735	7.1.33	11,35.	11,0.4	1,841		7,841	574		98,18,	48, 184	9,754	18,387	25,447	4,214	14,671	25.5	8,247	25.1.00	671,26	3,077	4,687	11,733	3,902	5,402	40,183	2,157	24,074	
		Oct 1251P	1201	. 73,434	74	24,13	= , 1	41,471	12,341	1,1,1		1, 1, 1,		45, 453	1,542	7 7 7 7	11,400	11, 111	1, 8ft b		7,774	68.7		98,978	1,12	P(++ 6)	18,496	26,033	3,424	14,446	2,414	8,187	0 0 0 0	0.00,000	3,082	4,8,3	11,614	4,027	5,281	40,969	2,198	24,552	
		11 1980		25, 421	1 8 .	20,400	12,514	34,423	15, 13	34,211	8,711	51,127		84,353	54,624	2 7.15	11,252	7, 5dp	2,74)	15 - 15	, 441	2, 136		89,350	75,512	8,4.6	17,757	21,622	3,345	13,848	2,476	7,837	77 000	20 137	2,985	4,753	10,505	3,931	5,122	37,465	4,056	21,907	
		1111		254,855	17.9, 18-3 6, 31-	13, 375	24. 45	35,442	14,175	38.478	8,405	17,158		88,701	51,587	9,000	11,176	7, 179	2,885	45, 114	7, 165	23,340		90,648	76,691	7,499	17,791	12,116	3,882	13,957	2,624	7,858	23 7 25	000000000000000000000000000000000000000	2,881	5,023	10,759	4,012	5,303	37,603	3,857	22,961	
	year territy	IN 1980		. 57,480	171,67	11,470	24,189	16,810	14,000	3 × 1.73	8,240	54, 183		84, 580	2,440	8,424	10,993	7,229 N. N. S.	2,786	18.57	7,668	2,250		92,042	77,+45	7,460	17,556	12,452	3,353	14,107	2,651	8,036	76 557	100,000	2,848	5,092	10,640	4,072	5,348	36,697	3,413	22,854	
per l		1981		25.5	178, 13 1, 13H	19,412	15, 357	38,111	14,213	14,588	2,385	55, 485		41,407	35.7	107,4	10,84	7,340	2,843	36.413	7,475	23,690		45,366	80,584	8,451	17,844	24,600	989,489	14,782	2,726	8,310	70 262	17,632	2,933	5,288	10,931	3,917	5,203	39,103	4,685	23,386	
ally adus		111		268,708	1/8,1/16	19,475	40,342	18, 528	14,508	41, 33×	9 9	55,185		47,127	55,816	8,844	11,212	7,581	2,885	36. 111	7,144	2,345		96,376	81,769	9,107	17,828	25,022	3,531	14,607	2,654	8,207	306 18	007 100	2,979	5,378	11,302	3,844	2,542	40,115	4,761	23,587	
5,4500		July 1981		271,872	180,855	20,031	25,487	18,469	14,715	91,017	4,00%	55,620		43,653	2,650	4,074	11,150	7,626	2,990	36. 786	8,093	2,310		400,79	82,431	9,315	18,327	13,465	4,154	14,573	2,668	8,138	23.0	C42,410	3,013	4,721	11,559	3,793	2,515	39,658	2,283	23,655	
	ly.	Aug. 1981		273,561	6,831	20,232	20,243	38,695	14,857	91,140	9,320	55,915		91,015	2,636	9,095	11,195	7,842	2,878	16.4.21	7,904	23,264		97,768	82,496	9,571	18,503	25,065	3,474	14,772	2,754	8,234	0.00	0/6470	3,208	5,746	11,668	3,864	2,539	39,947	4,255	23,739	
	Month	Sept. 1981		70,016	7,037	70,440	40, 117	19,624	14,889	17+, 10	9,200	31, 304		74,187	,715,45	7,4315	11,48.	2,748	758		7,921	2,367	1	98,651	1.044	9,888	18,537	13,551	3,415	14,568	2,669	8,176	-	83,778	3,274	7,884	11,998	3,994	5,673	40,216	4,323	23,868	
		Oct. 1981P		.78,3.7	7,070	20,739	26,851	40,122	14,831	91,678	8,887	56, 17.		94,130	2,695	7,591	11,477	7,917	2,437	10. 17.	7,878	2,31,	7	99,388	1,083	9,943	18,577	13,660	3,401	14,243	2,366	8,139	000 70	84,839	3,292	2,962	12,051	4,187	5,683	40,862	4,249	24,119	
		Industry	Terrals	All manufacturing industriction	Durable guods Industries	Palmary metals	Nonelectrical machinery	Transportation equipment	All other durable goods industries	Nondurable gools industries	Per roleum and coal products	All other nondurable goods industries	MATERIALS AND SUPPLIES	All manufacturing industries	Durable goods industries	Primary metals	Nonelectrical machinery	Flectureal muchinery	Instruments and related products	Nonthire to the second of the	Chentral and allied products.	Rubber and plastic products, n.e.c.	WORK IN PROXESS	All manufacturing industries	Durnble goods Industries	meta	Nonelectrical machinery	Electrical machinery	Instruments and related products	Nondurable goods industries	The property and utility products	All other nondurable goods industries	FINISHED GOODS	All manufacturing industrites	Stone, clay, and glass products	Primary metals	Nonelectrical machinery	Transportation equipment	Instruments and related products	Nondurable goods industries	Petroleum and coal products	All other nondurable goods industries	Ppreliminary. Revised.

Table 6. PERCENT CHANGES AND REVISION FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data

		(Base	d on season	arry adjust	ed data)					
			Pe	rcent chang	es				Revisions ²	
	M	onth-to-mon	th	Avera	ge monthly	rates of ch	ange ¹	Year	Average	monthly
Item and industry group	Sept. 1981- Oct. 1981	Aug. 1981- Sept. 1981		Third quarter 1981	Second quarter 1981	First quarter 1981	Nov. 1980 through Oct. 1981	ago Oct. 1980	Oct. 1980 through Sept. 1981	Oct. 1976-1980
Shipments:										
All manufacturing industries	-2.4	-0.6	-0.5	-0.6	+1.1	+0.4	+0.2	0.1	0.2	1.2
Durable goods industries	-3.7	-0.8	-0.5	-1.0	.1.4	+0.6	0.0	0.1	0.4	0.4
Nondurable goods industries	-1.1	-0.3	-0.4	-0.1	+0.8	+0.2	+0.3	0.5	0.4	0.5
Inventories:										
All manufacturing industries	+0.6	+1.2	+0.5	+0.8	+0.4	+1.1	+0.7	0.2	0,1	0.1
New orders:										
All manufacturing industries	-5.2	-1.0	-1.5	-0.5	+0.7	+0.1	-0.1	0.1	0.3	0.2
Durable goods industries	-9.1	-1.2	-2.6	-0.8	+0.6	÷0.1	-0.5	0.5	0.6	0.4
Nondurable goods industries	-1.2	-0.7	-0,2	-0.2	+0.8	+0.1	+0.3	0.3	0,4	0.4
Unfilled orders:										
Durable goods industries	-1.4	0.0	+0.2	+0.3	+0.2	+0.4	+0.2	0.1	0.1	0.1

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entoriess)	hipments rat	io	Unfil)		-shipments r backlog)	atio ¹
Andustry Samp	Oct. 1981 ^p	Sept. 1981 ^r	Aug. 1981	July 1981	Oct. 1981 ^p	Sept. 1981 ^r	Aug. 1981	July 1981
All manufacturing industries	1.69	1.64	1.61	1.60	3.74	3.68	3.67	3.65
Durable goods industries	2,25	2,15	2.10	2.07	4.47	4.41	4.37	4.36
Stone, clay, and glass products	1.81	1.75	1,71	1.56	0.63	0.60	0.64	0.62
Primary metals	2,28	2.16	2.04	2.00	2.50	2.46	2.40	2.43
Fabricated metals	2.08	1.99	1.94	1.90	3.17	3.14	3.13	3.16
Machinery, except electrical	2.48	2.42	2.40	2.40	4.71	4.72	4.68	4.74
Electrical machinery	2.37	2.27	2.25	2.22	4.46	4.42	4.34	
Transportation equipment	2.31	2.08	1.99	2.05	11.43	10.91	10.54	10.93
Instruments and related products	2,25	2,27	2.28	2.22	1.66	1.64	1.69	1.67
Nondurable goods industries	1.12	1.11	1.10	1.10	1.10	0.65	0.67	0.66
Food and kindred products	0.97	0.97	0.98	0.96	(X)	(x)	(x)	(X)
Tobacco products	3.68	3.27	3,31	3.15	(x)	(2)	(x)	(x)
Textile mill products	1.66	1.50	1,48	1.47	(NA)	(NA.)	(NA)	(NA)
Paper and allied products	1.34	1.31	1.31	1.30	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1,36	1.31	1,31	1.30	(7)	(X)	(x)	(X)
Petroleum and coal products	0.54	0.57	0.57	0.61	(z)	(x)	(X)	(X)
Rubber and plastics products, n.e.c	1.41	1.44	1.42	1,37	(Z)	(7)	(%)	(7)

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

Implied of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinerv and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal rubber and plastics products, n.e.c.

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Manufacturers' Shipments, Inventories, and Orders

NOVEMBER 1981

M3-1(81)-11

For Wire Transmission 10:30 A.M. E.S.T. Thursday, December 31, 1981

U.S. Department of Commerce BUREAU OF THE CENSUS

M3 - 1(81) - 1 (All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods showed a small increase in November, going up \$0.4 billion or 0.2 percent from October to \$159.4 billion, the Department of Commerce, Bureau of the Census reported today. This is the first increase in orders since July. Excluding orders for defense capital goods, new orders were down 0.4 percent.

Shipments of manufactured goods declined for the 5th consecutive month, decreasing \$2.2 billion or 1.4 percent from October to \$161.9 billion. Despite the increase in November new orders, the value remained below shipments for the month. resulting in a decline in the orders backlog of \$2.5 billion or 0.8 percent to \$321.1 billion. The orders backlog had declined in October by 1.5 percent.

The 0.2 percent increase in manufacturers' new orders resulted from offsetting movements in the durable and nondurable goods industries. New orders for durable goods were estimated at \$79.1 billion, up \$1.3 billion or 1.7 percent from October; new orders for nondurable goods, which for the most part reflect shipments for the month, declined \$0.9 billion or 1.1 percent to \$80.3 billion.

Within the durable goods industries, the largest increases occurred in the machinery categories: new orders for electrical machinery increased \$1.5 billion or 14.3 percent to \$11.9 billion, while new orders for nonelectrical machinery were up \$0.5 billion or 3.4 percent to \$16.5 billion. These increases followed October declines of 17.0 percent and 8.7 percent respectively.

New orders for nondefense capital goods, reflecting the machinery order increases, were up 10.0 percent from October to \$23.1 billion. New orders for defense capital goods were up \$1.0 billion or 26 percent to \$4.8 billion, following an October decline of 42 percent.

Declines in the value of manufacturers' shipments in November were widespread. Within the durable goods sector. virtually all major industries except electrical and nonelectrical machinery were down. Shipments of primary metals in November were valued at \$10.6 billion, down for the third consecutive

month. This 4.1 percent decline followed decreases in October of 4.7 percent and September of 3.1 percent. Both the steel and nonferrous categories have been showing steady declines. Within the transportation equipment category, shipments by the motor vehicle and parts industries were down for the 5th consecutive month. November shipments were valued at \$10.0 billion, a 6.3 percent decline from October. The motor vehicle industry decline in November was partially offset by increases in the aircraft and shipbuilding industries.

The decline in shipments by nondurable goods manufacturers in November of 1.1 percent matched the October decline of 1.1 percent. Declines in food, petroleum, and rubber and plastic products shipments were partially offset by increases in most of the other categories.

The book value of manufacturers' inventories in November increased \$1.1 billion or 0.4 percent from October to \$279.6 billion. Most of the durable and nondurable goods industries reported small increases, but the motor vehicle and parts industry showed an inventory decline of \$0.4 billion or 3.9 percent to \$9.1 billion.

With the decline in shipments over the last several months the inventory to shipments ratio has now climbed to 1.73. This is the highest it has been since the second quarter last year when the ratio rose to 1.76 in May and June.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting. but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for December is scheduled for release on January 22, 1982, and the full report is schedule for release on February 2, 1982.

A description of the survey methodology and related information may be found in the summary report in this series for 1980 M3-1.10 Manufactures' Shipments, Inventories and Orders: 1972-1980, issued July 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

TABLE 1. VALUE OF WASHERS THEREST SHEWESTS FOR INDUSTRY COLUMN, WASHER CATEOUTES, IND. SPRIEGESTAYS SEED.

							th llt ans	Silline of follars										
				Season	Seasonally affusted	ī						YOU	· · · · orally	v aftisted	14.			
			Monthly	ılı	1		pourterly	,				viantalv.	lv				rat-trentte	13.10
SIC	Indistry	. 5. N	. 1 . 2	or pt.	1	Ε			,	La			last	* 1 th	d Lear ago			
		13-16	141	1	1 1	100	; ž	· <u>i</u>		- 4	S 01.	1.5.5.	1 1	. ;	**************************************	174.	Is	() ()
	TOTALS		-	-		*	+		-	+-					† †	-	-	
	All manufacturing ambistrace	161,869	164,085	168, 181	14.5, 114		7, 1	11, 11		172,346	1 1	1 1 1 1	[4],442	1,5,5	. 12., 41.	0,5	, Su., chi. 1, r88, 33	, 188, 317
	excluding transportation	145,115	146,487		161,000	;	7		2 , . 13	1.2, 15-1			3	27,112		17,00	, t 19, 16 B	1,315,62
	unfilled orders	80,17.	36, ,350	44,145	54,447		5,51	2	, 164 g C.	11.	7.		Q	1,711,6	: 7	7 7 4	A TATE	304, 302
	Durable goods industries	81,738	8,,583	86,179	. I . v. 1x	, but, 154	1. 11.	· · · · · · · · · · · · · · · · · · ·	St. 4.13.	,	12, 15	40,143	* * * * * * * * * * * * * * * * * * * *	2.5.3	15,10	,	441,1*1	
	orders	09,191)54,46	71, 414	<i>;</i>	, , , , , , , , , , , , , , , , , , , ,	÷.	111,111	ξ, 7, 1,	·, ·		=	1 1 2	1, ,	* [* , * ,		122,448	714,364
	Nondurable goods industries	36 44.31	81,50.	**	t t	X X	1	******	· · · · · · · · · · · · · · · · · · ·	x		55,531	24, 155	Y T	ser, 1 34	-	4.8 , 5.83	35. 243
	orders and and and and and and and and and and	16,479	16,906	17,.67	14. 44.	1, 1,	1, 14	55.4.	17,116	*	14, .43	1 , 331	7	1, , , , 1	11,000	1 , 1.0. 1	. 46,,93	1,113
	MARKET CALEADRIES													er				
	Home goods and apparel	11,987	11,971		1.,400	3, 5,	\$ = 1 12 \$	* '	1., . 9.	15,4%	r . r.	÷ ,	- 1: -: x	7 17	3.1.10	11, 4.1	1 44, 24	1.0,144
	except automoffve	15,828	25, 165	ri		71, . 52	7r , dh.,	. 1	15,080	80°°	<i>*</i>	***	2,443		652	11,411	.78,05×	.5.,131
	Construction materials, supplies,		¥ 1 1 1						11,113	1 1		r,		, ,		- - -	× × × × × × × × × × × × × × × × × × ×	,
	Other externals, supplies, and intermediate eroducts	72. 801	71.4.5		- 50 - 50	3/,1 3		i,	11, 54	1, 101.	14,1	3 3, 11	Y .	13,440	1 474		1 53,445	141,600
	SHPPLEMENTARY SPICIES ²										-		+/	-	-			23,313
	Household durable goods indus-																	
	tries containes marties Nondefense.	5,1.72 8,826 24,358	5,194 .7,871 .5,534 4,337	13, 50 13, 50 14, 638	(7135		18, 18, 18 18, 18, 18 18, 18, 18	2 X 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	3,189	15.52 18.73 18.73 18.73	3,34	58,703	55,868 240,47 243,185 37,285
	INDUSTRY GROUPS AND INDUSTRIES																	
# 2	Ourable goods industries Stone, clay, and glass products.		3,845	* 1 2 2 7		£ 1	200	7.	3,437	4,164 .	9.7	Ž,	6	7		5,407	45,0%	41,854
37.1	Primary metals Blast furnaces, steel mills Nonferrous and other primary	10,613	11,065	11, min	0,111	15,268	15, 32, 18, 48,	17,84	5,175	11,191	11,734	11,55	11,119	11,446 5,480	11,084	1, 193	5,50c 128,857 66,175	123,071
34	Fabricated metal products	4,138	9,989	10,286	10,432	L., 418 M.,265	13,434	14,197	3,485	10,447	11,671	4,53.	15,132	\$ 7 \$ 4 \$ -	10,184	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50,457	54,150 106,859
35 351 352 353	drums, Machinery, except electrical., Engines and turbines. Farm machinery and equipment.	813 17,133 1,509 456	797 16,9,4 1,193 1,182	77. 17.55.1 1.380.1	17,246 17,246 1,428	\$1,669 5,817	50,414 50,414 4,151 3,800	50,128 3,864 3,614	67.2 16,393 1,414	769 17,136 1,346 1,266	17,814	16,24s 1,32s 1,08s	15,349	1,1%1 1,1%1 1,1%1	16,316 1,137 1,167	13,860 1,002 1,002	9,246 186,403 15,142 13,635	7,463 166,293 12,647 12,689
354	material-handluk equipment. Metalworking machinery General industrial machinery.	3,562	3, 183 1,001 1,474	1,035	3,473	10,166	9,856 2,910	4,619	1,309	1,000	1,077	3,361	2,729	3,304	1,473	2,773 811	36,728	10,141

							TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	or dollar										
				Seaso	Seasonally adjusted	par						Not	seasonall	Not seasonally adjusted 1	1			
			Mon	Wonthly			Quarterly					Vonthly	4				Carte - tate	ate
SIC	Industry	2				;				last 4 mc	wonths		Last	4 months a year	a vear ago			B.
		1981	1981r	1981	1981	1981	1981	1981	Nov. 1981P	net. 1981 ^r	Sept. 1981	hur. 1981	198 198	.ict.	sept. 1980	Mr 1980	1 m m	148
	INPOSTRY COUPS AND INDUSTRIES																	
	Durable goods and industrius																	
36	Electrical machinery Electrical transmission and distribution equipment and	11,471	11,262	11,007	11,682	35,062	34,049	33,111	11,620	11,439	12,339	11,4 0	11,11	11,459	H, lea	1 1, 26,5	1.5,408	115,310
34.3	Household appliances		1,558		1, 75	5,403	3,459	3,4 198	2,546	1,112	1,986	1,9+6	1,879	1,878	1,871	1,71	12,30	11,400
30.5	Compared in equipment		838		377	2,705	7,854	2,7 8	53,	1,140	1,115	6.5	1, 119	1931	170	709	2 2 2	2 2 2 2
367	Flectronic components	10,754 10,754	17,198	2,385	2,391	7,174	5,931	52,732	17,387	18,354	18,781	15,547	18,25h	2,419	17,316	15.5	5,245	17,774
371	Motor vehicles and parts		16,586		1.,37	16,731	37,422	C,737	10,676	12,500	11, 39	1,997	11,594	12,9.18	1 ,7 "	7 X. c	1	1 5, 44
37.31	Shipparling and military	4,745	4,550	4,938	4,4-7	14,212	14,459	13,5.6	4,73.	7,114	2,177	4,400	4,078	4,017	1,200,1	12.43	51,445	46 ** 64 5
3795	Instruments and related	1,175	1,095	1,151	1,201	3,010	3,52.	3,4 15	1,173	1,16.7	1,17-	1,238	1, 18	1, 116	1, 84	1, 3	1,,,,	11,-77
381-4 386	products	2,397	2,551	1,486	4,245 7,512 1,416	7,58	17,495	12,335	1,553	,,345 ,,585 1,511	4,587	4,198	1,532	4,124 7,314 1,522	1,104	3,67.1	15,441	11,435
3,02	All other durable goods industries		8,059	7,985	7,80	24,338	-5,524	24,938	7 * 5 4 P	5,713	5,781,	8,411	2,150	0°	8,491	7,886	11.03	5,99.53
Š	Non-durable goods industries		0.0 0.0		3	-	6	9	7	72.0		9		-		_	66 74s.	
201	Meat products	5,290	1000	5,856	5,794	17,544	16,070	15,090	5, 333	5,×17	5,765	5,617	5,399	5,513	5,180	, m	548,845	53,399
203	Fats and oaks		1,746		1,8%	5,375	9,1.4	5,233	1,715	1,77.	1,791	3,124	1,891	3,131	1,555	1,571	14,715	31,431 17,4.5
203-5,	Tobacco products		8,752		1.186	3.542	3.55	17,587	1,144	1,15%	9,0,8	1,575	1, 91	1,538	1 ., 24.	4, 89	12,405	11.1.9
2.5	Textile aill products		190,2		4,414	15,337	13,012	12,481	4,111	9,320	4,711	6.24	5,99.	0, - , 1	4, 75	3,735	46,458	42,470
17.	Pulb, paper, ett		2,823		24.5	19,470	8,48	8,479	., 870	1,00	2,48h	00001	2,989	2,75.	1,347	Chan,	31,554	1 0'C
207	Paperboard containers		2,076		1,611	5,813	5,914	9, 152	1,823	1,407	1,728	1,084	1,8 9,1	1,014	1,502	1,4.1	45,437	11, 46 .
281,6	Chemicals and allied products. Industrial chemicals, ex-		15,053		15,458	QI + t q p	779,575	14,941	74,465	14,787	10, 78	15,455	13,519	14, 631	14, 1, 41	13,185	181.5.8	152,49
283.4	Drues, soap, and tolletries.	5,175	5,245	5, 38+	5,374	10,9	16,135	15,458	5 X 1 ×	1,0,01	343	5,197	4,885	5,1.4	5.94	4,584	5 1,1 19	16,484
97	Rubber and coal products	~	16,479	16, 143	10,4.05	18,313	46,733	182 55	14,899	15, 14	15, 30	10,438	15,003	14,977	14,493	14,44,41	7	11,711
		5,531	3,945	3,971	3,450	11., 15%	11,88t	11,414	4,416	4,152	4, 107	7 '-	4, 127	4 , 344	4,16.	* [*]	431.6.	156,54
37.5	411 other nondurable goods industries.	12,651	12,244	12,207	12,359	37, 39.2	30,3 14	25,48,	13,384	13,567	13,314	13, 80	12,187	1.,713	1.,357	11,564	135,.1	16.17
+							-											

TRevisel. Ppreliminary

**Superents and new orders are the totals for the period and are adjusted for traditional and calcular events with a minimum section of the period and are adjusted for traditions.

**Ince applementations, are regrammings of the separate industry, citigeorges, as follows:

**Face applementations are regrammings of the separate industry, citigeorges, as follows:

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topical compared to the previous producers' capital goods and the defense products fold series categories.

(aptial goods, indepress, occupied and aptial goods and the defense products and individual capital and are sometimes and occupied and are sometimes and occupied and are sometimes and occupied and are sometimes and occupied and are sometimes and occupied and are sometimes of defense one filed by large defense contractors in the following fluctuations of opening and are sometimes and occupied one filed by large defense contractors in the following fluctuation of progressian and produces are published annually in the MA-17. Suppose the area of the area occupied by the defense of the area of the area occupied by the area of the area occupied to the managinal of the area occupied by the area occupied to the managinal of the area occupied to the area occupied to the area occupied to the area occupied to the area occupied to the area occupied to the managinal or the managinal or the area occupied to th

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			1:41		*		10.		*. *	, 1,	1	1			7 1				7, 7,			115,41	18,76	
		- 1	10.0			1.5,417	1.5	1,144	1.	7e , 18s	15,41	× ;		17. 17.	2,730	12, 1.			1004		3, 809u 10, 521	1,515 1,044 13,152 1,270	2,542	
. 11		1 Year	, pt		10 1 21	144,55		17.195	****	4.1.4	14,71	1 1,553		12,55.1	12,421	1,,556	, v		12.5		4,126 11,371 5,354	4,348 4,713 10,754 1,320	3,108	
the attack of		11.00	# E :		12 ,	last, and	11,755	. 1, 111.	.4 ,f	40,515	11,474	' 4, kl		14, 141	14, 88	14,504	%		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		12,712	5,182 10,867 16,211 1,404	3,311 866 1,369	
Not a settle	velv.	.7	10.		24. , 00.	141,47]	· ·	۲, 1, ۳	, 1 ,	18, 15,	1 ,	1,124		15, 10)	27. 22. 11. paret	10,01	71,5%4		4, 404 25, 453 21, 743 4, 211		11,709	4,302 10,135 15,443 1,177	2,743	
	Westernal		lus. 14+1		164,74)	14.5,5.1	÷.	-1,44	1	j i	1,,,,	10 to 10 Tr		1, 1, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	24,004	12,659	28,748		5, rel 26, 883 22, n40 4, rel		4,190. 10,830 5,48.	4,507 10,053 16,214 1,554	5,317	
		, , ,	111		17.178	1 ', 444'	0.00	, , , , , , , , , , , , , , , , , , ,	177		17,34	17,384		1., 4. t	12,150	1., 417			21,844 31,00 23,795 7,247		4,157	4,248 10,371 17,264 1,853	3,310	
			1 1 1		1	:	0.0	:	·.		1 1991	1.		7		:	-				1,171	15.707 10.590 11.700	3, 4,7 1, but	
	,		1981		1						11			7.7.	1,	11.,	ξ 		;;;;;		7 X X	1277	3,141	
			- 1			ne 1, 5F	c	. H. v. v. H.	1 , 154	24.5, 13.0		114,10			18, 12, 18	13 c 1 s	21, 15		10,412 80,040 70,408 15,624		12,425 54,228 17,291	31,224	10,615 2,701 4,198	
	Marticelly.				10 4 1 40	ž.	10.5	[+,1,1,1]	.17, 47	, 1 m	1	11		., 1×7	75, 980.	10%, 7164	1,70,71		10, 447 80, 133 71, 818 14, 315		12,686 54,754 18,453	11,322 11,877 51,889 4,335	11,085	
ī			1.3		-11,111	451,137	2.1,	Perty 8. 4	1	257,194	117.16	140, 312		1 2002 1 57 44 5	16, 744	17,117	.27,. 14		27.25 27.25 25.77		12,11) (5,440) (18,540)	11,056 30,759 51,532 4,343	10,520	
ally and seed			1741		17 1, 10 1	14.1, 1082	4.1,4.14.1	47, 450	7.,,111	5,1,1	17,000	65,680		12,354	17,534	11, 464	75, 344		\$,25. 30,450 24,700		3,467 11,602 5,082	4,465 4,901 1,544	3,553 752 1,638	
alla come	.13		101 102		140, 260	140,817	M. s. p. 16,2,	88., 73	1.5, 11.5	8.,106	17,331	5.,13		12,221	13,408	12,275	75,958		5, 388 29,580 23,024 4,554		11,422 h,322	10,054 17,498 17,498	3,338 786 1,317	
	Month.ly		1,481		1	143,	7	77,8 1.		41,.1	le , e .	10,000		, i.		11, ,711	11, 134		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10,170	3, fau. 4, 8, 8, 15, 48, 1, 39,	1,97	
			JialP		1 ., 1, 5	1,00,001	43,040	70,10	17,080	80, 48	11. 1.11	13,65		F. 1.	11,1.14	11,438	.17,07		25 x 25 c 25 c 25 c 25 c 25 c 25 c 25 c		3,49%. 10,036 1,183	5,458 4,524 11,528 1,337	3,569	
		Industry		DOMS	Mi candacturing to instruction	candidate for the control of the con	antitles reder	Darable goods in first ries,	Orders,	Nondurable goods industries	orders.	orders	MARKET CATROUTES	Home goods and appared	except automotive	and intermediate products	intermediate products	SUPPLEMENT NO SERUES.	Householl tarable goods indus- fries. tries. optial goods industries. Non fefries.	INDUSTRY GROUPS AND INDUSTRIES	Durable coods industries Stone, clay, and glass. Primary metals. Blast farmaces, steel milks. Nonferrous and other primary	fabricated weels products Nachinery, except projectical Engines and turbines	Material-handling quipeent. Wetalworking machinery. General industrial machinery.	
		T,																			32 33 331 331	35	354	000

Table 2. VALUE OF WANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATHERINES. AND STIFFLEMENTARY SPRIES - SOUTH

Millions of dollars)

							HITTION	disting of dollars	101									
				Seaso	Seasonally adjusted	+ed						No	Not seasonally addusted	ly adjusted	d1			
			YOU	Wonthly			Quarterly					Monthly	11				is the tail	dut-
SIC	Industry	2	400			:	:			1351	. months		Last	4 months a year	a vear ago			
		1981	1981 r	1981	1981	1981	1981	1981	Nov. 1981	Oct. 1981	Sept. 1981	Aug.	Nov. 1980	oct. 1980	Sept. 1980	λug. 1+80	1981	1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
36	Electrical machinery	11,855	10,370	12,487	11,920	36,462	36,281	34,371	11,,71	11,247	12,818	11,699	11,426	12,135	10,815	10,829	179,748	120,171
	industrial apparatus		1,474		2,038	5,937	5,770	5,798	1,944	1,548	1,911	1,993	1,739	1,475	1,717	1,589	1,115	20,402
363	Radio and TV	763	940	1,114	1,049	3,249	2,754	2,845	833	715	1,293	1,111	821	947	913	910	10,01	8,114
366	Communication equipment		7967		5,451	11,105	10,704	9,811	3,412	3,579	3,985	3,210	3,412	3,796	2,918	3,340	38,111	35,020
	Transportation equipment	pr-108	15,780		20,375	59,911	57,848	55,886	16,447	201,163	19,284	15,960	17,343	21,197	20, 160	11,925	600,00	184,995
37.2,	parts, missiles, and	4,311	3,432	5,617	5,106	16,83+	13,663	16,553	43.43.4	5,884	6,510	3,571	3,004	5,891	5,857	3,259	3,892	58,418
37.31	tary	1,170	76+	585	1,454	3,400	3,996	3,796	1,168	1,1,2	1,229	1,519	812	1,370	2,058	1,284	15,77	13,779
m	Instruments and related	4,381	4,233	4,245	4,152	12,822	12,540	12,330	4, 345	4,362	4,480	4,164	3,471	4,067	4,120	3,874	6 , 11 , 21	42,075
វ ស ភ	All other durable goods	7,440	8,036	8,048	7,775	24,238	25,563	25,58b	`,37.	29 th 10°	8,569	8,391	8,082	8,673	8,386	7,924	11,717	65,779

Preliminary. "Revised.

Superity and itse, orders are the totals for the period and are adjusted for training for the min are an of the min of the min of the period and are not adjusted for training and are not adjusted for the min of the period and are not adjusted for the min of the period and are not adjusted for the min of the period and are not adjusted for the min of the period and are not adjusted for the min of the period and are not adjusted for the min of the min of the period and are not adjusted for the min of the period and are not adjusted for the min of the period and are not adjusted for the min of the period and are not adjusted for the min of the period and are not adjusted for the min of the period and are not adjusted for the min of the min o

Capital goods independent or the previous produces' capital codes and the defense products of learnest capacities.

Nonfederse products "datherer, every electrical (evaluing farm enchange) and equipment and machine snows; electrical antimument eventualized and publicates, ratio and TV, and electronic components, and the monifederse products and publicate and entering and realized equipment, eventualized and entering and realized equipment, eventualized products and entering entering effects and effects entering entering effects troing-detor of caledar-onth variations. The separate industry categories as follows the supplementary series are supplementary series are supplementary series are supplementary series are supplementary series are supplementary series are supplementary supplementary series are supplementary series are supplementary supplementary series are supplementary supplement

Table 3. And a Week to a Partitle active of the contraction of the first Sixta of the Sixta of the

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			707	Spring.				, 111 mil.						ALMAC.	14			
oIt	Print to	į										•	-		[35]	t + contin-	t . raf azo	
,		19klb	THI.			- *	- <u>:</u>	= 5,	ŝŧ	= 1			5.3	j	, Y	* !	1 1	1.44.
	101415														,			
	The said a turing andustries	30,000	32 5. × 38		, ,		1.75		Ī	,		4	3,3 × 3	3. 153	513. 15%	31. 1.**	31. ** .	100
	escluting transportation,	200,782	16,8%	A 5. W				?			; ;	· · · · · · · · · · · · · · · · · · ·	2	71: See		. 20%, 18	4.	(19), 443
	Darbille goods industries	10, 67	317,581		31, 11.	11	3,	i'	1 . 15.			5 5 7	11. 7 4	313,411		3 3 3 .		27
	Vondurativ cooks indastites,	17,441	1, ×, 1,	.1 1.3	3.2	11	l.	f	ž	;	1	11 12	.' :1	.1 5	**	,	?	:
	WARRY CALEGORIES																	
	Home growls and appearal	4, 43	al.	15/ 15	1.	K.	1	**	ţ	÷	7	+, >1+	į.	5	5. 78.	ž,	. 4	;
	Vit worlde equipment.	1 190,736	141,219	1+3,1-8	19 4, 174		191, 324	. × × 1	r	÷	1 1 3 th	, 14 , 14 t	25.1.41	î ,	153 134		16 1	· · ·
	Construction caterials, supplies, and interpretate products	17,248	17,017	17.371	17 4 15	1 1 1	17 4 11	-			* 5° - 1	11, 18, 1	.7 .17	17. 1	1771	1	1741	7
	intercellate products	Low, 646	110,785	11313	11:11	11.2. 11	, , , ;				140,00	Lin, bas	11 , 75	111 55.7	14,437	11, 26	1.18, 1.3	108 74
	SUPPLEMENTARY SERLING															-		
	Household durable goods indus- latios. Capital, goods industries. Nontaclaries. Defense	3,124 221,809 142,328 71,481	1,348 222,716 143,384 74,127	3, 735 225 758 146 178 79, 632	2.2. 0.10 14.7. 11 17.7.12	1, 3x 121 486 147, 486 7, 1846	*1731 *1731	1474	2 1 - 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		222,474	22.5.25 22.5.25 30.4.23 74.035	12. 31.3 12. 31.3 17. 35.5 77. 35.5	221, 150 Z 14r 539 1	713 474 113 474 113 348 1	3, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	8. 95. 53. 54. 54. 54. 54. 54. 54. 54. 54. 54. 54
	INDUSTRY GOOTHS AND INCOME.																	
33	Durable goods industries Stone, clar, and glass Primary metals	27,049	27.627	71 7	- 2	1,	X		i	g :	75	1913	3	8	3.		543	*** † ***
331 333-6,4	blast fornaces, steel ills	16,208	16, 165	-		14. H4.	6 4	17,434	27.75	13, 238	14,546	15,224	15 449	12,712	28,342	27 623	14,74	26, . 74
2 %	Fauricated netal products	24,070	7,1.88	24. 434	246.3	12	1.52	4 - 1 18 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	4,47t	27.7. X	24, 233	1,363	7, 354	8, 211	7.7.7	9, 14	200	9, 1st
351	Engines, except circuit	15,239	18,411	18,413	13.	15, 178	75, 642	74.396	72,850	11,414	73, 37.	74,139	74.080	75, 233	72, 144	72, 9. 0	72, 192	7289
355	maforial-handling equipment.	11,038	5,300	11 343	11 380	10, 484	3.1.	7,345	7,871	x	10,784	16.43	11,116	11,256	8.307	2 C	10 H	7 851
Ser	Ser footnotes at end of table.	086, 9	6,7,5		-	77.2	7 0	6,177	7,287	1.10.2	6,360	6,705	670.	1,822		0,141	27.7	6.454

					Seasona	Seasonally adjusted	P						You	seasonally	Not seasonally attracted?	1		
			Mon	Monthly				Quarterly						Wonth 12	111			
SIC	Industry group	Nov	Opt.	Sent	Ano.	11	-	1	111	1		last 4 nonths	onths		Las	Last 4 nonths a year	a vear avo	
		1861	1981	1981	1981	1981	1981	1980	1980	1980	Nov. 1981p	ict 1981	Supt.	4nk.	1986	ist.	Sept.	Aug. 1980
	INDUSTRY GROUP AND INDUSTRIES																1	
	Durable goods industries																	
1,2	Electrical machinery	51,017	20,634	51.525	50, 707	-0 124	48, 494	47.225	+5,819	47.341	26,577	30,124	51,147	> 1, 718	42.50	44,275	605 57	45 353
	distribution equipment and industrial apparatus		8,055	8,429	8,469	8, 39.2	8,351	7,407	7,905	8 327	8,073	8,634	20,1	. 48. 148.	Ç.	2,485	7, 883	X, ,42
	Household appliances	331	316		384	433	415	412	45.1	319	276	2.47	389	+17	3 > 4	389	40,	395
5	Radio and TV		995			378	482	346	777	410	409	5.34	821	273	7.7	577		> 7 %
4	Communication equipment,	28,960	28,543		27,963	27,542	26,345	25, 427		22,802	28,837	18,616	28,276	27,575	24. 914	14,3041	3.4.3	23,489
7	like ti ante components	12,049	12,122	12,042		12,207	11, 733	11. 019	12,135	12,695	11,868	11,964	12, 114	12,342	12, 741	1. 3081	7777	12,432
c ci	Arcraft, missiles, and	113,276	100.011		_	(1) (1)	110,170	647,743	677. 577	Other Cont	707'011	(77''17	1177. 221	(to 6 ' to 7 T		11411		016.6.7
	parts	91,226	42,010	93. L2n	12,449	715 CE	+62.1+	84,371	+), 4ht	85 524	42,000	9++ 67	01. Jr.B	8+, 733	84,174	X 888	54.514	87,500
9	tank vehicles	16,967	16,972	17, 303	.7 AS9	In, 953	16 478	18, 187	15.421	13,44	17,151	17,157	17 19	17 123	15.449	.0, 695		13,764
	products	7,297	7,059	7,067	7, 120	7, 150	2.012	6,487	P. 803	11,944	7,151	7,1.58	7,1191	7,193	6.645	4.828	4 88 K	6,931
	industries	4,675	4,878	4,853	4, 791	4,955	4.915	4.307	4,050	4,744	4,522	4,745	266.4	5,209	3 9 48	4,016	4, 103	4,468

Shipments and new orders are the totals for the person and are algusted for trading-kn and calendar-confi versatives, antillied writes and inventories are of the end My predeferations with the variations.
The suplementary series of the variation attacks and patters, cutters, handbooks, and harbare measured applicances ratio and it, spatialists evens, varies, unit loss to it. the subsection and applications and series and patters, cutters, landbooks, and applications and applications are recognized to the series of the variety and the series and patters, cutters, landbooks, and applications and applications. "Revised.

Capital goods industries—Comparable to the prescious producers' capital goods and the delense products and structures, described and the account of the meaning and the structures and the account of the meaning and account and account of the structures and account of the structures and account of the structure of the structures and account of the structure of th

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THE RESIDENCE OF THE PROPERTY

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			1	l w sô			24, 314	100	382	454	1.37		2,145		104	20.	4,20,1	286	1001	1,000	2006	181	893	300	118	18,25	100	5,572	.181		14, 14
				148.	,		24	4.		n t	45		- (1		7 %	7.1	1	c.	(4)	~ ~	10	0 1	7 10	(1	CIA	38	2	IO 70			1.4
				orpt 1989			24,136	4,162	1,287	5,540	15,43%	13,74.4	2,126		7.4.7	2,155	14,010	22.273	1,089	1,707	13,007	3,556	7,468	.,845	1,953	18,114	6,1.17	5,523	2.151		14,344
	3		avt .	oct 1580			24,112	4,115	1,251	5,557	37,819	1112	2,134		4,030	2,145	15,805	23.042	2,255	2,351	115,511	5,798	7,565	2,842	1,915	15,015	11047	5,560	5.115		13,41)
	111 11 11 1	W minhy		\nv 1+80			. 1933	4,101	1,341	1 (1)	15,965	2,2,2	2,344		2,051	2,150	15,744	C+ F. 67	418	2,509	13,490	3,747	7.712	2,824	E T	18,482	005,0	5,177	5,053		13,504
	Vot sees adds	2		Nug.			26,259	4,553	1,531	8,850	39,005	25,263	2000		4,611	2,305	14,713	21,417	2,029	1,420	12,60	3,605	2575	3,120	2,327	29,025	608,4	2,124	5.537		15,497
	>		worths	Sept 1981			24,256	4,678	1,056	4,864	39,378	25,228	2,171		9,658	2,323	14,699	21,913	2,019	1,253	13,067	3,906	8,424	3,070	2,315	19,900	6,743	5,7*1	0.50		15,181
			Last 4	oct.			2 2 2	4,754	1 1.57	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	47.715	122	2.8.5			5	7	7.		1,547	13,354	4 057	× 5 3.4	1,176	SF	10 01	1, 109	ţ.			5
				Nov. 1981			26,547	1,31		52.4.2	7 3. 7		Y.		1 56.1	1,0,1	14, 324	2	2,155	2,026	15,121	() () () () () () () () () ()	м, 701	1.70	1, 154	21,624	1. 444	7 2	1,53%		7,11
				1980			24,145	4,263	1,309	6,422	34,429	20,160	2,130		496,8	2,135	13,923	21,263	2,005	1,840	11,885	3,507	7,866	2,779	2,094	19,211	6,714	5,587	5,603		14,241
(5)			-	1980			24,350	4,222	1,292	6,589	35,442	21,835	2,105		4,037	2,172	14,175	22,368	2,138	2,388	12,480	3,628	7,818	2,894	1,971	18,478	6,200	5,594	5.232		14,243
s of dolla		quarterly	1	1980			24,383	4,163	1,311	4,557	36,810	22,418	2,265		9,281	2,243	14,046	22,325	2,271	2,055	10,428	5,507	7,798	2,794	1,973	18,489	6,244	5,012	5.279		14,353
(Viliton	erd		-	1981			25,057	4,263	1,444	4,560	38,111	24,001	2,612		4,380	2,259	14,213	22,237	2,272	1,792	12,476	5,689	8,286	2,972	2,188	19,488	6,693	5,819	5,538		14,656
	lly whusted		-	1981			25,089	4,488	1,492	4,795	38,628	24,820	2,636		9,603	2,247	14,508	21,862	2,267	1,643	12,450	3,570	8,332	3,018	2,255	20,218	9,461	5,334	5.634		14,817
	seasonally		3,000	1981			26,243	2,593	1,600	8,367	38,695	25,167	2,449		9,585	2,251	14,857	21,951	2,109	1,761	12,632	3,931	8,445	3,122	2,301	20,281	6,855	5,441	5.6.34		15,038
			Sund	1981			26,517	4,744	1,064	4,874	39,424	.5,468	2,596		4,738	2,342	14,880	21,826	2,067	1,096	12,481	3,946	8,588	3,123	2,337	20,363	018,4	5,867	5.703		15,182
		Monthly	***	1981 r			26,365	4,806	1,742	2,4,4	40, 164	12,47	7		4,714	2,320	14,904	21,130	2,130	1,602	12,370	4,043	769.8	5,213	2,355	20,722	456,4	9,248	7,729		15,516
			200	1981P			27,046	4,777	1,785	0000.5	40,198	25,415	2.554		12.7	77.7	14,631	21.599	2,088	1,762	12,228	4,036	5,824	5,234	2,599	20,764	D. 44.0	8.5.5.4.28.4.2.8.2.3.4.4.2.3.4.4.2.3.4.2.3.4.2.3.4.2.3.4.2.3.4.2.3.4.2.3.4.2.3.4.2.3.4.2.3.4.2.3.4.4.2.3.4.4.2.3.4.4.2.3.4.2.2.3.4.2.2.3.4.2.2.3.4.2.2.3.4.2.2.3.2.2.3.2.2.2.2	110%		1.8.4
			Industra		INDUSTRY CAOCTS AND INDUSTRIES	barothe gods indistribes -	Flectrical machinery [lectrical transmission ind otsernbution equipment and	industrial apparatus.	Eads and TV.	fletronic components	It smap utilities equipment	Arcent messales, and parts	* tank vehicles	Institutents and related	products	Phytigiphic avis	Wil other durable gods	Nonderuble goods industries food and sindred products	West products	Fats and alls	All other loods	Tobicco products	Paper and allied products	Fulp paper etc	Paperboard containers	Themicals and althed products .	pigments	Frugs, shap, and chiletries	Fubber and plastics products,	VII of the wandlemable county	Todo-Tite
			010				36	32.3	365	357	37	372,5	3731	38	181-1	3.9+	1/3	3,	201	202	203 6.9	27	34.	261 3	264	0000	0.107	283.4	~	23	31

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		+			pos									11 2 4 4 4	1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	100°.	11,17	100	7	, 111. 	2001	3	× 77 2 4 6	74,641	ton't	17,791	23,156	3,288	2,569	907	1,858								3,857 4,056 2,240 2,381	
T T T T T T T T T T T T T T T T T T T	1 1 0000	-	1		-																		11.50	90,5 %	8,451	17,044	24,100	3,489	14,782	1,000	8,310						_		4,685 3,413 2,159 2,117	
	a seed thy as a	1-1	-	1 275, 41 1 .	1 155, 31 1	Sleves of	() ()	18,114	4	1,180	F 7	55.21		43,015	24,4134	9,045	7,842	4,78.5	545,	7, 12	14. (5.) 14. (5.)	.3,76.	- 492,124	82, 14n	7 453	18,503,	35,065	2,474	14,772	1,069	4,24	82,578	42,631	7 - T	11,668	3,864	2,539	39,947	2,291 2,258	
	10 to 11.3 v	lysl leal		. 78.44	[w. 7] = 1	1 1	x	7 7 7		-											11.17									1.11								7	4,141 4,323	
		No.						21								1 4				17.	1								14 +51	R. D. C. C. C. C. C. C. C. C. C. C. C. C. C.		:							n.e.c 2567	
		Industry	TOTAL	All carutacturing industria	Stan day and gless prouct	for any chalsen	None le et rical - schinery	Electrical controls	Instructure and relative products	Norderally good fallestrice	Description and silled production,	dumber and plastics product the	ATELIANS AND SUPPLIE.	All candiscturing industries	Durable , cost inhastifes	Pat any ortals	Noneletrical ashinory	Distriction equipment	All other turable governments	Vondurable goods invustries	Rubber and plastics product , n.	All their n nadrably gests then work In Process	411 sanufacturing transfirts	String street industrie	y met al	Note: circal naththers	Thanslortatic a equipment	All other durable gloss indistrib	Chemicals and allied products	Rubbes and plastics products, n.c.	FINISHED GOODS	All manufacturing injustries.	Durable goods industries		Nonelectrical machinery	Transportation equipment	Instruments and related products All other durable goods industries	Nondurable goods industrics	Petroleum and coal products	

		Chara	t n arrona	all, attust	d fata					
			10	inent chang	e e				W + 1 PH *	
Its and infestive group	M	oth town	t is	A. = 1.	igi minithl	rate of ch	mgi		V conpe	11.1
	Oct. 1481 Nov. 1481	Sept. 1981-Oct. 1981	V., 1981- Sept. 1981	Thurs quarter 1981	1981	thist parter ,481	the through Nov. 1981	Va. 1980	Oct. 1981	1976-1980
shapere at a										
All manufacturing industries	-1.4	2.7	1,6	1,6	+1,.	+ 1,4		1,4	0.2	
Durable goods incostings	-1.6	4 .	-0.8	1.4	+1.4	+0.6	-0.2		0.4	0.4
Nonderable goods intastries	-1 1	-1.1	-0,3	-0,1	*1), H	+ 1,	+0.2	0.2	0.3	0.
Inventatios — All manufacturing industries,	+0.4	+0.7	٠١,,	-1,8	412,14	+1,1	+(1-7	1,4	0.1	,
New reduis										
All manufacturing industries	+0.2	-5.6	1,1	-0.5	+1,2	+0.1	-0.2	0.5	0.3	
Durable goods industries	+1.7	-9.8	-1.2	-0.8	4.1, 5	+ 1, 1	-0.5	4.4	1) 6	
Nondurable goods industries	-1.1	-1.2	-0,7		4.1, 5	40,1	+0.1		0.3	,
nfilled orders										
Parable goods infustries	-0.7	-1.5	0.0		+0.2	417,14	+0.1	0.0	0.1	0.

Table 7. KATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNTILLED ORDERS TO SHIPMENTS, BY DRUSTRY GROUP

(Based	on versour	lly adjuste	d data)					
Industry group	lnv	entoriess	hipment< (a	tio	!niil]	led order (months'		atic1
However Fromb	Nov .481 ^p	0ct. 1981 ^r	Sept. 1981	Vog 1981	1481 ^p	Oct. 1981	ept 1981	Aug. 1981
VII minufactoring industries	1 73	1.70	1.54	61	3.73	5,74	3.68	3.0
Durable good industries	2,30	2.26	2.15	2.16	4.44	4.49	4.41	u. 3
Stone, clay, and glass product	1.80	1.80	1.7.	1 71	1.68	0.65	1,50	3 6
Primary motals	39	2,28	2.16	1, 14	2 55 1	2.50	2.48	
Fabricated netala	2.15	2.06	1 99	1 94	3.31	3.17	3.14	3.1
Machinery, except electrical	2.48	2.50	42	2,40	4.57	4.75	4.72	4 67
flectrical machinery	2 36	2 39	2.27	2.25	4.45	4.50	1.42	· 3.
Transportation equipment	2.40	2.34 1	2.08	1.99	11.27	11.59	16.91	10.5
Instruments and related products	2.35	2.29	2.27	2.28	1.76	1.66	1.64	1 %
Nondurable goods industries	1.15	1.13	1.11	1,10	0.62	0.64	0.65	O b
Food and kindred products	1.00	. 98	0.97	0.98	(X)	(7)	(7)	(7.1
Tohacco products	3.44	3.68	3.27	3.31	(7.)	(7)	(7.)	(x)
Tertile mill product	1.71	1.64	1.50	8,8	(NA)	(NA)	(51)	CAVI
Paper and allied products	1.45	1.34	1.31	1.31	(N1)	(N4)	(7/1)	(A7)
Chemicals and allied products	1.35	1.38	1.31	1.31	(<)	(<)	(+)	()
Petroleum and coal products	0.55	0.53	0.57	0.57	(7)	(1.)	(<)	()
Rubber ins plistic products, n.e.c	1.64	1.45	1.44	1.42	(7)	(7)	(5)	4 = 1

preliminiry. (NA) Not ovillable. (°) Not applicable.

We had dealed atom of these peror tages for the quarter and the lowest take intercals reflect sepande to rive, goods are set and set and the revisions are the differences in been the month to ment percent charges of the prolaments are form, extraines. The month, we also to the sample, are registed to differences, attends record to same, for the months specified. The advance to final percent barge differences to the durable goods industries are shown in the advance report for the counts.

Textbode the following industries with no unfilled order: What an looker products; (1) container, metal ans, barrels, int trues first administration of adaptance, and release to the container and adaptance, and release to the container and administration of the composition of the container and administration of the c

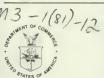
U.S. Department of Commerce BUREAU OF THE CENSUS Washington, D.C. 20233

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Manufacturers' Shipments, Inventories, and Orders

DECEMBER 1981

M3-1 (81)-12

For Wire Transmission 2:30 P.M. E.S.T. Tuesday, February 2, 1982

U.S. Department of Commerce BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in December showed a small increase from November, going up \$0.4 billion or 0.2 percent to \$160.3 billion, the Department of Commerce, Bureau of the Census reported today. This brought orders for the year to \$1,999 billion, a 7.4 percent increase over the 1980 volume of \$1,862 billion.

Shipments of manufactured goods declined for the sixth consecutive month, decreasing \$0.4 billion or 0.2 percent to \$161.6 billion. Shipments for all of 1981 were valued at \$1,999 billion, the same as new orders received for the year. Consequently, the value of manufacturers' unfilled orders at the end of 1981 showed no increase from the \$320 billion level reported at the end of 1980.

The book value of manufacturers' inventories declined in December by \$2.4 billion or 0.8 percent to \$277.2 billion. Inventories at the end of 1981 were valued at 7.4 percent higher than at the end of 1980.

The 0.2 percent increase in manufacturers' new orders in December resulted from increases in both the durable and non-durable goods categories. Durable goods new orders were up 0.3 percent in December to \$80.2 billion. This is smaller than the 1.6 percent increase recorded in the advance report published earlier. More complete reporting by machinery producers generated revision to both the November and December new orders previously published. November new orders for durable goods are now recorded as 2.8 percent above October rather than 1.8 percent.

Within the major industry categories, new orders for transportation equipment were up \$0.7 billion or 4.3 percent to \$16.1 billion, mostly due to new orders in the defense aircraft and parts category. New orders for primary metals declined for the 5th consecutive month. The December decrease was \$0.5 billion or 5.4 percent to \$9.5 billion. Machinery orders were relatively flat for the month, going up \$0.1 billion or 0.3 percent to \$29.4 billion.

New orders for the nondefense capital goods industries as a group were down in December \$1.0 billion or 4.2 percent, following increases in October and November of 7.4 percent and 13.4 percent, respectively. New orders for defense capital goods were up \$0.6 billion or 12.5 percent to \$5.5 billion. Defense orders for all of 1981 averaged \$5.2 billion per month as compared to the 1980 average of \$4.7 billion for a 10.6 percent average gain.

The decline in the value of manufacturers' shipments in December of \$0.4 billion resulted mostly from declines in the durable goods sector. The largest decline was in shipments by primary metals producers of \$0.8 billion or 7.5 percent to \$9.8 billion. Within the nondurable goods category, shipments valued at \$80.4 billion, showed no change from November.

The December decrease in the level of Manufacturers' unfilled orders of \$1.4 billion or 0.4 percent to \$320.1 billion reflected a large decline in the nondefense capital goods category, where the commercial aircraft and parts industry reported a sizable decline. The backlog of defense orders increased in December \$0.9 billion or 1.1 percent to \$80.4 billion.

Declines in the book value of manufacturers' inventories which resulted in an 0.8 percent decline for the month were widespread. Within the durable goods category nearly all major industry groups reported declines; within the nondurable goods category the largest decreases occurred in the food, and rubber and plastics products industries.

The pattern of change in inventories by stage of fabrication differed between the durable and nondurable categories. For durable goods most of the decrease was in raw materials and supplies, although work in process inventories also declined. The value of finished goods showed little change from November. For nondurables, finished goods inventories accounted for the decline.

The inventory to shipments ratio in December was 1.72, down from 1.73 in November. This is the first decline in the ratio since June when it was 1.57.

The estimates for December are generally subject to greater revisions than other months. These revisions are attributable to corrections to early estimates by companies and to the lower than normal response rates, as reporting is delayed by year end closing of records. For example, based on data from January 1972 through December 1980, the average monthly revision to durable goods new orders was 1.1 percent; for January through November the rate was 1.0 percent, while the average December change was 1.6 percent.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY ADDRS, "MAKET (ATEMPTES, AND SUPPLEMENTARI SPETS)

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							(Willions	or joilars										1
				Season	Seasonally adjusted	p _d						You	seasonall	seasonally adjusted				
			Wonthly	aly			quarterly					Morraly	A				Arm ed t	ta.
SIC	Industry									Last + ronths	onths.		Last	Last - Topins a vear ago	a vear ago			
		1981P	1981s	1981	136.	13816	198,		le.	1981	L K H	1461	,	N N N N N N N N N N N N N N N N N N N	. 477	Sep 1 +MI	1+blp	(& g
	TOTALS																	
	All manufacturing industries	161,529	151, 479	156 585	158.561	481,545	E T	11 4		, 1, -1 le	1,347	-,1	· .	** 19	1 5 L 4 L	1 (1 + 5 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 9 Cart.
	Manufacturing industries excluding transportation	144,344	145,176	140,887	149,625	435,417	7 4 7 7	0 t	134,141	43,34,	1:1.16	.1.	324. 41	35, 57	144 - 1	1-40 1-40	1 165,857	054 5ur
	Manufacturing industries with unfilled orders	85,799	86,345	R6,55F	84 L83	258,701	7. D	1.65 373	53, 38	1	¥ .072	4, 44.3	4 7 7 7 1	84 366 E	 	86,20° 1	,054,470	367,077
	Durable goods industries	81,275	81,641	×2,563	56. 174	24 24 0 47	:	÷ .	r ! x	1	- ·	*	£ , + , + , + , + , + , + , + , + , + ,	- 1,1	5.14.48		246,912,	436 340
	Durable goods with unfilled orders	68,729	69,331	04,650	71, 116	207,710	217,28	. 1.84. 1.	, , Sud	**	1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		, , , , , , ,	31 003	2 6 6 7 7 7	852,258	782.636
	Nondurable goods industries	80,354	80,338	81,502	82,402	242,194	180,081	1 × 1 + 1 × 1	544,	3.,33.1	N3,581	1 5 X	, b19.	74 + 33	80 484	86.133	978, 235	606,909
	Nondurable goods with unfilled orders	17,070	17,015	16,300	1, 201	5 , 441	. 20 25		16,542	11.1.	1 1 1 2	18, 14,	15, 403	2 7.	, t	16 586	2 2,211	184 441
	MARKET CATEGORIES													-	-			
	Home goods and apparel	11,729	11,793	11,971	1217	35,493	37,409	7.5° - 20	Jic, 173 -	17,435	13.42h	13 658	10,116	12256	13.278	12.7.5 30.21h	146,082	135,305
	Equipment and defense products, except automotive.	26,751	26,236	25,163	15,088	78,130	· 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0	, k, t64	10, 431	25,454	25,485	1, 23,	25.139	13.443	12. 12.	12.661	376,358	277,289
	Construction materials, supplies, and intermediate products	11,429	11,564	11,935	12,319	34,418	37,354	18.504	10,540	11,343	12.662	13,18	11.64	800 M	13.4	12.×7×	149,960	143.458
	Other materials, supplies, and intermediate products	71,361	72,280	73,920	74.914	217,561	126,523	PT. 170	18,483	711,8117	74,816	x, 1	20,838	71,374	72,226	70 355	891,142	825.543
	SUPPLEMENTARY SERIES ²														_			
	Household durable goods indus- tries Capital goods industries Nondefense.	5,148 29,028 24,456 4,572	5,128 28,935 24,433 4,502	5,194, 27,871, 23,534	5,360 28,822 24,608 4,214	15,470 85,834 72,423 13,411	16,146 85,974 73,112 12,865	16.241 84,469 72.453 12,017	30,528 25,527 4,801	5, 3+ 8 28, 444 24, 007	5,749 28,214 23,825 4,389	25.45 46.41 46.41	27.894	* 7 * 6	26.887	5.5% 27.550 3.841	338,178 .88,247 .49,893	58,493 308,368 267,210 41,158
	INDUSTRY GROUPS AND INDUSTRIES																	
322 33	Durable goods industries: Stone, clay, and glass products. Glass containers Finary metals.	3,791	3,860 494 10,635 5,518	3,845 492 11,065 5,710	4,024	11,496	12,278	1,567	3,373 424 7,117	3,824 475 10,114 5,154	4.164 502 11.191 5.698	4.335 518 11.724 5.965	3.085 415 10.981 5.639	3.977 4.05 111.190 5.556	4,259 425 11,446 5,430	4.221 471 11.088 5.055	43,024 5,926 137,997 70,956	45,518 4,923 134,051 62,481
333-9	Nonferrous and other primary metals. Fabricated metal products.	3,841	4,152	4,368	4,631	12,361	14,018	13,454	3,579	3,949	4,442	4,695	4,336	4,519	4.825	4.984	54,050	58,485
35 351 352	Netal cans, barrels, and drums. Machinery, except electrical Engines and turbines. Farm machinery and equipment.	845 17,127 1,380 1,194	812 17,446 1,492 1,151	797 16.924 1,393 1,182	17,353 1,429 1,380	2,454 51,497 4,265 3,527	2,441 51,669 4,404 3,817	2,488 50,914 4,101 3,800	17,667 1,396 1,396	16,671 1,399 1,399	769 17.136 1.346 1.266	907 17,814 1,491 1,386	1,193 1,193	15.349 1.154 1.001	822 16,243 1,181 1,308	967 16,316 1 137 1,167	9,969 204,352 16,523 14,769	10,199 182,837 13,839 13,699
353 354 356	Construction, mining, and material-handling equipment. Metalworking machinery General industrial machinery.	3,563	3,588	3,383	3,375	10,534 2,758 4,416	2,989	9,856 2,910 4,282	3,374	3,333	3,420 1,000 1,500	3,459	2,917 1,045 1,376	2.729 972 1,295	3.004	2.973	40,126 11,610 17,151	35,287 11,185 15,987
Soo	So frottone of the control of																	

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES.-CONTINUED

(Millions of dollars)

							(Millions of	of dollars	8)									
				Seaso	Seasonally adjusted	ted						Not	seasonally	y adjusted				
			Monthly	hly			Quarterly					Monthly	1y				Annual t	total
	Industry		100	ò	9	2	1	-		Last 4 n	months		Last	4 months	a year ago			
		1981p	1981r	1981	1981	1981p	1981	1981	Dec. 1981P	Nov. 1981	0ct. 1981	Sep. 1981	Dec 1980	Nov. 1980	0ct. 1980	Sep 1980	1981p	1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
	Electrical machinery	11,587	11,433	11,262	11,667	34,282	35,062	34,649	11,422	11,583	11 839	12,339	10,596	11.201	11.459	11,169	136,993	125,907
	distribution equipment and industrial apparatus		1,903	1,868		3,124	5,901	5,738	1,887	1,873	1,897	1,988	1,821	1.879	1,878	1.871	22,801	21,869
	Communication couloment		3,242	838		2,522	2,765	2,859	3.350	951	1,002	1,115	8000	610.1	666	940	10,814	9,002
	Electronic components Transportation equipment	2,506 17,285 10,074	2,357 16,803 10,018	2,243	2,385 18,95h 11,971	7,106 51,286 30,778	57,354	58,531	2,376	2,367	18.828	2,514	16.053 4 86-	2.376	19,543	2.318	28,038 219,586 137,457	26,997
	Aircraft, missiles, and parts	5,171	4,789	4,55.0		14,510	14,218	14,459	5,422	4,8,0	4,475	5,177	4,751	4.678	1 27	J.	54,915	51.007
	Shipbuilding and military tank vehicles	1,130	1,216	1,095	1,151	3,447	3.616	3,524	1,275	1,214	1.167	1,17.	1,129	1,018	1.016	1 084	13,943	12,606
	Instruments and related products	4,235 2,532 1,439	4,146	4,241 2,551 1,429	2,299	12,622	12,812	12,495	4,228 2,529 1,460	4,251 2,445 1,509	2.585	2,844	2,384	4,104	4,124	4.156	29,404	45,993
	All other durable goods industries	7,794	7,824	8,059	7,985	25,077	24,338	25,524	7,087	7,768	8,713	8,780	7,471	8.150	D (8) D	8 591	98,462	93,464
	Nondurable goods industries: Food and kindred products	21,557	21,493	22,077	22,421	65,127	67,512	67,307	21,603	21,930	22,763	23.316	22,383	22,574	22.677	23,002	266.371	254,745
	Beverages		2,779	2,898	5,856	16,550	8,948	9,124	2,527	2,824	3,055	2.980	5,400	5,309	3,131	5,186	5,609	33,985
φ.			8,451	8,752	8,80%	15,504	26,509	27,271	8,633	8,580	9,023	9,608	9 773	9 692	4.538	10 242	20,982	108,323
	Textile mill products		3,934	4,061	4.427	11,945	13,337	13.012	3,774	4,001	4,120	4.713	3.089	3 9 2	4, 05	4,075	13,622	12,466
	Puper and allied products		2,900	2,823	3,442	19,534	19,476	19,354	2,521	2,851	2,877	2,986	5.855	2,589	2,752	0,347	34, 173	31.932
	Paperboard containers	2,096	1,952	2,076	1,671	4,932 0,124	5,813	5.970	1,515	1,630	2,025	1,728	1,789	1,482	1,614	1,562	19,736	17,880
	Industrial chemicals, ex-		020,01	15,055	10,489	45,873	40,400	44.873	14,503	14,477	/8/*/1	16,0/8	I4,609	13.619	14.331	14.597	182,046	167,099
	Drugs, soap, and toiletries	5,261	3, 903	3,737	3,934	15,034	16,2,9	16,135	5,034	3,748	3,833	5,303	3.364	3,572	5,124	4.930	64,084	59.967
	Petroleum and coal products Rubber and plastics products,	_	15,831	16,479	16,049	47,744	48.313	48,730	15,738	15,778	16,249	16,086	15,580	15.653	14,977	14,493	194,595	176.598
	n.e.c	3,789	3,042	3,945	3,971	11,376	12,0%	11.886	3,413	3,525	4.152	4.087	3,530	4.027	4,344	4,160	40,724	090'87
	All other nondurable goods	12,367	32,405	12,299	12,297	37,071	37,392	36.304	11,411	13,103	13,507	13.314	10.513	12,187	12,713	12,337	146,345	133,105
1		1	1									-	-					

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dispensis and now orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders are as of the end of the period and are not adjusted for

and the supplementary series are regrounds of the separate industric categories as follows from the supplementary series are regrounds of the separate industric categories, and closes, and elseella-flueshold untarities—dousehold furniture. Attributive. Attributive. Attributive. Attributive and pottery, cutlery, handroots, household attribute and pottery.

Gaptial posds indiscrive—*Comparable to the previous producers' capital goods and the defense products (old scripes) categories.

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		Wanter By	Ji,			.1111.					12.11.12	1 2 2 4				Mr. Ed	1 1 1
Industry										20.00		1	11.00 4 4 4 11	Velar s.			
	. 481	ingl.	1.73	E E	ž į	E (: 4			-7	Total	5.4	**		A des	_	1 * 50
1.1, M.S						1											
All manatac turing industries	160,27	1 .0, 475	1,74,000	ItB, tree		411,11.8	TAR SEC		1	164.1 20	17.1.11	161,7 %	lie, 38 +	1 .6.7.4	16	1,,	1,850,705
Manutas t aring indistries, excluding transportation		1 . 4, 174,	1 45,227	1.4,417		10000		114,948		121,007		144.119	148,471	14%,40	£	1,44	1,678,030
Manufacturing Industries with	1 /200,00	0452 (50	31, 4/6	1, 1, 1	*	711.007		0.7.1	W.110.K	2.0.7	10.1.10	8). 48	8 5, 7 18	411,788	87,503	1, .,	481,849
bu able goods maustraes	, in.	. 6 , afo.	77.41.	Nt 7 *	1111			18,000	- 11	¥	87, 47	× 8, 56.4	82,103	411,1114	, , , , , , , , , , , , , , , , , , ,	1, 21,131	451,164
furable pools attl unfilled	- 853.4	tel, true	64,871	17,01,01	:		117, 748		11. 2	10, 10,	73.824	71.638	68,1015	14, 11 + 1	70,888	803,44	141,773
Nondipable goods industries	30, 143	1, 11,	107.18	57,156	10,10			11,000		X 1.15 9.2	· · · · · · · · · · · · · · · · · · ·	77,3 sr	78,712	×10,08	897,118	9	+04,536
Industries with unfilled	16, ×	315, 1944	16,640	17,011		11.27		to the s	10,600	-	17,842	0++. 1	15,633	16,474,	16,715	-1	184,078
orders	1.3 p.k. 18 p	1 1, 1 15	5,4, 545,	181,4 %	11111	100		7	A10174	11.67.17	7 , 584	e 2., 5 45	63,134	6+, 4]	63,555	1	725,462
WARKET CATEGORIES																	
Home goods and appared	28,528	11, 00	28,633	12,17,	2 · · · · · · · · · · · · · · · · · · ·	* * * * * * * * * * * * * * * * * * *	4		- 3	11.748	13,461	10,044 .8,446	12,000	24,384	3.234	146,155 546,346	134,842
Equipment and defense products, except automotive	11,944	11,111	23,328	13,448		1.,7.,	in cent		7	16,416	12,026	18,824	13,460	36,360	27,411	158,898	133,322
construction materials, supplies, and intermediate products	11,000	11, 11	11, ,71	137	* * * * * * * * * * * * * * * * * * * *	0.111	· 4. 71 .	2.1	F. 1	1	12,617	11,875	12, 14	13,573	12,555	149,175	142,740
other aternals, sapties and intermediate products	11,000	512,150	71, +86	1 2, 4 38	.1., 41			44,0 1	147,44	11.3.11	12,14	71,683	71,544	732×	04.f 55		828,235
SUPPLIMENTAIN SERUES?																	
Household durable goods tritus- tries, cut algoris tribustries Vortal goods tribustries Vortal conse	1 8 8 8 1 8 8 4 1 8 4 4	18, 873 23, 883 4, 893	24,826	5, 368 23,426 6, 334	7 7 5 5 7 7 5 5 4 7 5 7	16,150 31,73 71,42 17,75	16, 647 86,13, 11,818 14,51			111. 133, 40. 11. 40.0 10.035	31,400, 81,400, 83,700 7,139	1581	25,45	23,492	5,416 29,435 23,176 6,259	543,955 241,875 241,875 52,055	58,182 326,752 270,571 56,181
INDUSTRY GROUPS INDISTIGES																	
Purable cods tedustries stone, clav, and glass. Pricary vetals	3,73	3,724 10,032 5,124	3,844	11,422	11,5 th	1.,110 35,491 18,540	12,686 34,464 18,464	3,3,4,4,5	18 ° 5 ° 7 ° 7 ° 7 ° 7 ° 7 ° 7 ° 7 ° 7 ° 7	10,170	4,157	3,618 12,094 6,228	3,428 11,709 6,283	4,252 12,712 6,373	4,126 11,371 5,354	48,798 134,520 69,568	45,22k 134,057 63,212
	3,743 2,389 17,430 1,335	4,436 17,472 17,472	3,444 4,782 15,484 1,390	4, 368 10,054 17,498 1,538	11, 23 27, 44,5 50,844 4,000	13,656 n.724 st.332 4,343	13,322	3,844	3,524 8,50,1 1,058	2,707 16,346 1,602	4,248 10,371 17,264 1,650	4,808 10,232 17,915 1,160	4,302	5,182 10,867 16,211 1,404	4,448 9,710 16,054 1,320	52,507 121,812 204,747 15,763	58,694 115,993 182,782 13,329
Construction, winting, and material-bandling equipment. Metalworking machinery. General industrial machinery.	1,435	3,613	2,071 765 1,551	3,338 786 1,317	10, 105 2, 044 4, 335	10,323	11,085	3,424	3,145	3,247	3,310	3,358 433 1,261	2,743	3,311	3,108	42,183	35,673 11,028 15,186

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SEPREEMENTARY SPRIESS-CONTINUED

(Millions of dollars)

¹Shipscots and new orders are the totals for the period and are adjusted for trading—day and calendar—month variations, unfilled orders and inventories are as of the end of the poriod and are not adjusted for trading—trading are regroupings of the separate industry categories as follows.

The applicances are regroupings of the separate industry categories as follows. Bousehold durable goods industries—dousehold funiture, attehen articles—and pottery, cutlery, and hardware; household applicances, radio and TV, ophiabate goods matches, and lower and pottery. "Revised. Ppreliminary.

neous personal goods.

The control of the previous producers' capital goods and the defense products fold series) categories.

The confidence products—additional control of capital and are applicated of the confidence of siphulating and arising and are applicated of siphulating and arising and arising and arising a siphulating and registry and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating a siphulating and arising a siphulating arising a siphulating and arising a siphulating a siphulating and arising a siphulating arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating and arising a siphulating a siphulating a siphulating and arising a siphulating a siphulating and arising a siphulating a siphulating and arising a siphulating and arising a siphulating a siphulating and arising a siphulating a

Table 3. With OF MARIA BITH P. WILLIAM PRIES on PARSEN To 1s, VIII. COLD II., AN THREETS LABOUR.

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					Seasona	Seasonally aftested	ī						You		seasonally citisted	1,1		
			19444	1						•	1		# P	"lor, tinl's	414			
>IK	In the ry							<u> </u>				1			Lass	t a onths	a vear 4,0	
		1481	1481	1 1 1 1		-	- <u>i</u>	1 1	E ()	= r	1.51		ort. Iral	1.61	free, .	News.	1.84	2+ pt.
	OIALS		1						1				1					
	VII cabulacturing industries	,l. o	(1),+7;	3.3,334	518,113	3	3, 3, 1		24.4.45	5. 4. 4. 4. 5			5-1,' .	3.3.7.5	11 ,** 1	315, 8]	314,18	31,500
	sanata walng industries	100,007	. Ed., ac.,	182, 10.	710, see	216,403	, 117, 411,	7		11, , 45,	4	1	British .	612,413	1, 3, 33+	Car5, 6 .	500° o	148,75
	Horalite goods industries	11.3.63	1 9.4	11,,81	317, 171	13.,,,,,	51L, **	1 			- 1 - 1 - 2	1	311, 45 %	31., 74	41.4	3 2,	363,341	
	Vondurable goods industrates	10,25.3	1 . **	10,8,0	11.3	1.,	11, 1	113	1		,		10,743	11, 7,	1	10, 54.8	ri m	15, 344
	MARKES CALEGORIES																-	
	Home goods and apparel	-	;	, ;	7	;	7		ř.	1	2		à.		5 th 7 th 75	3,74	Ž	-
	except automotive.	140,749	141, 11	141,11	143,138	10,40	1 5	· c	1-1,17.		11	141 %	141, 43	10, 61	138 - 138	185,134	183,1.4	181,-31
	Construction exterials, supplies, and intermediate products	10.771	17,151	12,911	17,371	cool 1	17,	17,18.	1.,5+4	, , , , , , , , , , , , , , , , , , ,	10,40.	14. "44.	16,855	17, 11	977	17,2,7	17,344	17,34
	interme Mate products	1 16,741	118,447	110,78	113,.13	11.,531	11c.,.*	111, 11	, , III	. 63, 00	7.7.		lon, rB4	111,785	288.		100,111	1 18, 14.
	SCPPLIMENTARY SERUFO?																	
	Household larable goods indus- tries (apital goods industries Nandefrase Detense)	8,143 (21,738 (41,328 80,438	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	3,348 143,584	1,735 12,778 14,1.6	3, 31. 2.1, 84. 147, 388.	800, U. C. S. S. S. S. S. S. S. S. S. S. S. S. S.	2,454 216, x 147,0.3	3,084 14,413 147,300 77,113	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		* · · · · · · · · · · · · · · · · · · ·	1,1.3 144,001 144,001	22,313	216,111 146,471 146,471	115,475	3,021	2,21 111,5,11 146,141 146,230
	INDUSTRY GROUPS AND IN STREET															-		
32	Stone, clay, and glass. Primary metals. Blast Turnaces, steel clibs.	2,222 75,683 16,004	27,024	10,000	2,124	14,897	188	30,268		25,487	5.00	11.85	1,15	25,045	7 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2,3+1 28,3+2 16,310	27,823	2,397
4 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	merial products Fabricated metal product Machinery, except elect Engines and turning	7,474 28,694 74,818 18,149	28,317 74,526 18,194	7,638 29,150 74,449 18,411	8,062 29,856 75,440 18,413	30,362	8,557 30,134 74,602 18,241	4,008 30,189 74,396 17,905	8,47* ,4,800 72,650 17,864	8,114 30,744 71,414 17,815	7, 41 28,493 24,916 18,906	73,948 73,993 18,31	24, 72 74,139 18,458	7,7%	8,775 .19,949 73,513	8,302 20,746 72,144 18,098	8,514 24,873 72,000 18,075	8,162 29,835 72,032 17,852
354 354	Construction, willing, and material and indianaling equipment. Wetalworking mathinery	10,915 5,022 6,588	5,234	11,031	11,343	10,489	7,760	8,765	8,141 7,551	3,02,7	7 8 5 7 9 7 7 7 9	1,84.2 5,255 6,596 6	5, 116 7, 705	2,753	8,748	8,30	7,534	7,985
Sac	and foothooks at and at taking																	

See footnotes at end of table,

Table 3, VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLIANENTARY SERIES-CONTINUED

				Sept. 1480				45,539		7,888	100	5+7	13,413	12,220	112,402		88, 14	15,341		588.4		4,153
			vear ago	1980			_	41,275		7,985	384	571	. 4,344	17,008	114,156,		8 + 888	15.495		8,8,		4,012
			last 4 months a vear	Nov. 1980		_		41.501, 14		7,845	3.74	. 15.	24,914	12,041	113,243	-	89,17+	15.483	-	0,2495	-	3,948
	Not seasonally adjusted!	1.0	Last	Dec. 1480				46,477		7,844	350	311	25,286.	11,559	114,322		89, 208	14.008		0,442		4,021
	seasonally	Monthly		Sept. 1981				51,197		8,409	389	821	28,275	12,114	115,890		,1,0r8	17.180		7,041		1,027
	Not		months	0ct. 1981				50,424		8,054	167	534	28,616	11,964	117,223		47, 9440	17.157		7,058		4,745
			Last 4 m	Nov. 1981				24 631		8,074	27+	505	. 18. H. 1.	11,903	116,791		9 13.	17 179		7,345		0007.7
				Dec.p 1981				50,668		8,103	2887	555	. 8,786	11,864	818,811		41,838	615 41		7,118		415.4
			-	1980				45,341		8,017	319	414	708 177	12,695	108,340		85,924	13.490		4,344		4,244
(8)			111	0861				618, 42		7,905	451	422	73,863	12,135	114,513		90,400	15.421		6,863		4,050
(Millions of dollars)		Quarterly	2	1980				47,2.5		7,467	411	340	25,427	IC, els	113,043		88,371	14,.087		18644		4,207
(Millions		5	-	1981				48,444		8,361	415	187	26,345	11,733	116,198		91,299	16.478		7,012		4,915
	Seasonally adjusted		-	1981				50,124		8,392	433	378	27,542	12,207	115,515		40,504	16.953		7,056		4,955
	Seasonal		o de de	1981				51,526		8,429	340	269	28,823	12,042	118,073		93,120	17.303		7,007		4,853
		Á	One	1981				50,634		8,055	310	995	28,543	12,122	116,657		4.,010	16.972		7,059		4,878
		Monthly	202	1981 ^r				51,072		6.141	329	431	856'82	12,084	115,283		11,187	14 96		116216	_	+,642
			Dog	1981p				51,506		8,237	339	619	28,970	12,243	114,086		941,405	16 5013		7,164		4.727
			Industry group		INDUSTRY GROUP AND INDUSTRIFS		Durable goods industries	a machinery	distribution community and		Househol Lappliances	Radto and TV	Communication equipment	the trunk components	Transportation equipment	Aircraft, missiles, and	parts	Shiphuilding and military	Instruments and related	products	All other durable goods	industries
			SIC					4.7	501,2		34.5	34.5	366	367	37	372,5		37.31	35		75	39

Preliminary Revised,

Supposes and new polices are the totals for the period and are adjusted for training-day and calendar-counts variations on tilled orders are at the end of the period and are adjusted for training-day and calendar-counts. lay or calondarions, we take the separate industry categories as follows

Functional supplementary series are regroupings of the separate industry categories as follows

Functional supplementary series are regroupings of the separate industries—foundation to the categories are series present industries—foundations.

Functional supplementary is a series of the separate industry categories as follows are series of the separate industries—foundations. The categories are series and in the categories are series and in the categories are series and in the categories are series and in the categories are series and in the categories are series and in the categories are series and in the categories are series and in the categories are series and in the categories are series and in the categories are series are series and in the categories are series are series and in the categories are series The categories are series
could propose comparable to the previous producers' capital goods and the detenes produces, outside producers' capital goods and the area controlled to the previous producers' capital goods are controlled to the producers of the producers are controlled to the producers of the

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			, 131. v	1.1.				274.475						verthly	11			
1	Indo-criv											1.	44		Last	4 4 3 4 4 4	2 V 17 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		1981P	Tall.		1,11	= 3	- *	: :	Ξž	:: 1	lec.		3 1-1	1441	Ler.	You.	0ct.	less.
	B-1M.																	
	All mander Curage indestribes.	.7772	23.4,344	T Y	11	* * * * * * * * * * * * * * * * * * * *	1	1	¥.	*	275 . 188	f	,	- Car - C.	* .	***	1.	, ,
	Manufacturing industria as	237,137	250,246	14,174		7 . 7 .		=1,1.	:	ž	231 243	36, 250		2 2	5 20	2 7	51 * 51	218 24 4
	Manage traffic andustries and a continuous arters	141,334	1 42,625	111, 84	141,44	14., 19	1	17.	17.00	1184	154,.15	140 268	184,214	14. 404		1.1,57	1,1,401	11, 1.1
	analyte , cels industries.	185,784	187,275	186, 13	185,14	7 7 7 7		1.1	1 . 1	,	188 712	** 11	144, 41	15 () ()	d	4	24 7 41 7	100 008
		170,2,4	171, 364	1 1,418	1+ 4. 11	1	-	`. 	-	M.c.m.	3+5	*****	ار ۱ - ا		3	15. 31	£	
	Non-purple , a 1s industries	41,345	Q.264	÷ ;	*****	4. 4					÷	-2.23b	;	y y		2	7	ř
	orders the greek with untilled	21,111	21,056	17, 411	79,873	71.5	1	ž.	1.3	14,539	27.02.12	, Q+ ' . '	2 7 5 C		13 44.	18 ×0×	4 4	4,7
	MARKET SATIONHEES																	
	Home goods and apparel	22,8M7 12,84H	25, 64	45,184	11, 43, 14, 53, 14, 54, 14, 54, 14, 54, 14, 54, 14, 54, 14, 54, 54, 54, 54, 54, 54, 54, 54, 54, 5	1.5	1	48, 41	- ×	4 . 5	31, 335	33,441	34,333	1	35,735	14,451 33,416	14 775	\$10 00 \$10 00
	Equipment and defense products except unbootive		76,570	., 1	75, 144		;;;		1	***	75, 500	70,1-3	7	<i>i</i> :	6.4, 12.4	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1	ĵ:
	Automotive equipment		11, 570	[] , No. 1.	11, /14		11.1	*.	(1, 3,	4	11.240	11 7+3	0.8	9. F	4 a . 1 1	167.11		11.955
	and intermediate products.	22,424	22.401	12,745	21,006	27,311	21,1602	11,365	21.834	Fire Ci.	22,067	22,109	22, 362	22,512	20, 42	20,278	2 31	21 02
	Untermediate products	110,856	112,414	1111,845	111, 1124	1.14, 1.47A	la', chb	1-12, 170	1.2.367	111,380	111,038	111,555	130,465	1117, 435	102,249	101.547	100 + 34	100,948
	STEEL SHATTARE STATE.																	
	Household furable goods infos- trics. (apt'al goods industries.	20,893	11,037 86,513 72,972	10, 481 86,053 72,485	15, 17, 85, 274, 72, 055	10, 30 42, 376 69, 676	45.48	28, 245	177	1.148 3.420 55.632	10.60% 85.277 72.363	10.627 86,041 72,666	15,490	11.23	3, 7, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	\$100 C	9,662 77,119 66,501	75,705
	INDUSTRA OFOTOS ANI INDUSTRIES		****								4							
3.2			6,953	1,424	7,037	4., 3.49	5.548	6,145	4, 114	t. 184	6.775	6,658	2,413	6,792	6,020	5,807	5, 789	5,807
322	Primary metals	25.184	25, 361	858 25,268	25,087	23, 534	23,640	21,976	584	22,555	25.632	25,301	24.471	24,709	22,390	21.880	21,665	21 699
333-6,			42,124	13,148	15,120	12,169	12,722	375.11	10,100	12	13.01	13,260	77117	13.029	066,330	000.71		12,011
34		20,171	20,733	10,617	20,440	19,973	19,812	8,802	14,345	20,020	10,582	20,159	20, 227	20,147	8,768	8,636	18.753	13,113
35	drums	1,404	1,510	1,582	1,578	1,571	1,637	1,744 34,184	37, 726	1,732	1,247	1,291	1, Jab	1,362	1,548	1,402	38,663	39,165
352	Fagines and turbines		2,585	2,622	2,585	2,423	2,423	2,774	3,127	3,148	2,527	2,593	2,583	2,546	2,465	2.501	2.830	2,421
354	construction, maning, and material-handling equipment. Netalworking machinery	9,748	9,623	9,522	9,213	2,636	8,469	8,446	8,650	2,833	9,749	9,546	9,294	9.066	8,421 2,724 3,534	8.502 2.802 3.518	2,817	8,512 2 818 3 576
200																		

Table 4. VALUF OF MANUFACTURERS' INVENTORIES FOR INDISTRY GROUPS, MARKET CATRAORIES, AND SUPPLEMENTARY SERIES .- CONTINUED

																		-
					Seasons	Seasonally adjusted	p						vot	seasonall	seasonally adjusted!	1		
			Monthly	Α.			3	Quarterly						Monthly	ly .			
21	Industry											Last 4 mc	wonths		Last	t 4 months a year	a year ago	
		Dec.	lestr	1981	1981	1981	1981	1980	1980	11980	Dec. 1981P	Nov. 1981	0ct.	Sept. 1981	Dec.	1980	oet. 1980	Sept.
	INDUSTRY PROTES AND INDUSTRIES																	
	. of other spectal and street of the second																	
-	Her trical machinery	26,779	36,976	26,865	.1.517	25, 684	25, 57	24, 183	.4, 150	24, 14	2t, 294	26,477	. b . 4 f.	26,256	23,951	426	24 11.2	24, 104
	distribution equipment and			41.0	*	200	1	0.75	100	3	ř	ř		-				
	Household appliances	2,057	2,134	2,134	2,071	1,476	1, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	1.074	1 2 2	1,443	1,497	1,989	2,321	1,428	1,172	1 727	1,745	1 260
	Communication equipment		8,935	8,882	8,459	8,884	8,774	8,450	68.76	8,178	8,812	8,907	8,469	8,810	107.5	256	<u> </u>	67. 8
	Flectronic components.		5,030	40.364	54.4.24	18,4,28	4,560	36,810	- Tri-150	4,422 54,422	4,831	4,924	4,437	4,864	4 .11	4, 4,13		4 43
	Motor vehicles and parts		500'6	9,453	3,316	4, 175	*, Mgs	4,644	7()7'	. 18',	8,719	9,331	175,	4,470	4 3 4 5	4. 383	. 34.	,
٤	Arcraft assales uniparts		26,499	24, 447	25,468	075,15	74, 193	.2,418	21,435	27 14.0	26,052	26,303	25, 432	15, 238	#3 CE	254	1	11,143
	tink vehicles.	2,513	2,573	2,742	2,536	2,4 %	2,412	2,265	2,105	2,140	2,385	2,705	2,823	2,671	. 140	7, 544	2,234	2,165
	products and related	9,649	9,771	4,714	7, 38	4,603	7, 180	9,281	4,037	8. 174	4,388	9,571	4.570	9,658	1.30	9.0.1	6(11.6	5
7	Photographic goods	6,946	2,316	2, 420	6, 412	1,34.0	0,543	2.241		2,24,3	6,862	6,865	1.824	2. 123	2 .34	2,150	2 14	
	All other durable goods	14,527	14,724	14,804	14,880	14,538	14,213	14,045	14,175	13,423	14,311	14,41	14,537	14,699	, x, x, x	13, 744	5 5.0%	14,01
	andurable goods industries		21,619	21,80	21,826	31,8.	3.5	3.5	Sh.x	.1.263	21,569	22,840	17. 3.	1, 41	2.5, Jhan	24,432	25 (42)	
	Biverages		3,824	3,817	4,863	1,741	4 - 1 4 d 4	3,865	4,770		3,777	3,834	1,447	9.6	5,874	5,304	3 465	100
	Fats and oils	1,587	1,741	1,602	1,646	1,048	1,712	2,055	2,348	1,340	1,787	2,002	1,048	1.253	2, 11%	2,61.9		1 7/ 1
0	Tobaco products		4.036	4,045	497.4	4,520	1, 1 89	1,507	874.5	2,07	4.495	4,145	4 957	1,906	21.	1,747	1, 73%	
	Festile will products		6,704	2,076	2,54.7	P000 +	6,514	1, 181	1,102	657.7	6,546	6,454	1.44.	757	4,712	6,412.7	5. 4]4	CHAP 5
~	Pulm buner ett		8,822	3,584	2	4,018	4,74	7, 794	x 2	2 486	3 745	8,698	12.	1,270	7 7	45.7.5	4.4	7 . T. C.
	Paperboard containers		2,403	2,335	2,347	2,255	2,138	1,413	F1	2,0 14	2.331	2,357	2.136		77	7	1	453
	'Il other paper containers		3,128	1,116	1,128	5,054	1,106	3,032	2,46.5	2,443	080,1	3,077	1,071	3, 33×	17.	0,75	. 443	C
9	Industrial chemicals, count		20,755	10,61	.0.3		cet.	10,10	7 7 7	14,511	20,858	20,622	100.00	7 7 7	7	10.7.01	12 03	11, 11
	pagments		6,884	6,856	6,810	19, 46	66.193	0,244	6,200	4 , 714	6,947	168'9	4,700	7,738	to, 3h.5	6 300	4 037	101,1
J .	Petroleum and coal pryducts	8 609	3,494	8.772	4,206	955.7	2,885	8,3411	4,305	3, 711	3,463	3,464	1, 8,7	1.3.3	X 4.4.	20,00	1000	5,443
	Rubber and plastics products.		2001															
	0.e.c	5,560	5,801	5,724	., 701	7,1034	5, 5.38	5,274	5,235	. (IN.)	5,603	5.590	3.16	5.	. 513	0.0	,	
	All . ther conderable goots	15,423	15,864	15,518	15,152	14,51	14,656	14, 03	7.7	14, 741	10,176	14,910	1	15 141	11 700	,	1 : 41.)	7.
Prel	Preliminary Revised.					-	7	1			-		-					

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Table 6. PERCENT CHANGES AND REVISION FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

		(Bas	ed on seaso	nairy aujus	teu data)					
			Pe	ercent chang	e				Revision ²	
	M	onth-to-mon	th	Avera	ge monthly	rate of cha	nge 1	Year	Average	monthly
Item and industry group	Nov. 1981- Dec. 1981	Oct. 1981- Nov. 1981	Sept. 1981- Oct. 1981	Fourth quarter 1981	Third quarter 1981	Second quarter 1981	Jan. 1981 through Dec. 1981	ago Dec. 1980	Dec. 1980 through Nov. 1981	Dec. 1976-1980
Shipments:										
All manufacturing industries	-0.2	~1.3	-2.7	-1.4	-0.6	+1.1	-0.1	0.5	0.2	0.8
Durable goods industries	-0.4	-1.1	-4.2	-1.9	-1.0	+1.4	-0.2	0.8	0.4	1.0
Nondurable goods industries	0.0	-1.4	-1.1	-0.8	+0.1	+0.8	0.0	0.3	0.3	0.6
Inventories:										
All manufacturing industries	-0.8	+0.4	+0.7	+0.1	+0.8	+0.4	+0.6	0.3	1.5	0.3
New orders:										
All manufacturing industries	+0.2	+0.6	-5.6	-1.6	-0.5	+0.7	-0.3	0.2	0.3	0.9
Durable goods industries	+0.3	+2.8	-9.8	-2.4	-0,8	+0.6	-0.6	0.2	0.6	1.2
Nondurable goods industries	+0.2	-1.5	-1.2	-0.8	-0.2	+0.8	0.0	0.1	0.4	0.5
Unfilled orders:										
Durable goods industries	-0.4	-0.5	-1.5	-0.8	+0.3	+0.2	0.0	0.2	0.1	0.1

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

	Inv	entoriess	hipments ra	t10	Unfil	led orders (months'		atiol
Industry group	Dec. 1981 ^p	Nov. 1981 ^r	Oct. 1981	Sept. 1981	Dec. 1981 ^p	Nov. 1981 ^r	Oct. 1981	Sept. 1981
All manufacturing industries	1.71	1.73	1.70	1.64	3.73	3.72	3.74	3.68
Durable goods industries	2.29	2.29	2.26	2.15	4.51	4.49	4.49	4.41
Stone, clay, and glass products	1.83	1.80	1.80	1.75	0.67	0.67	0.65	0.60
Primary metals	2.56	2.38	2.28	2.16	2.71	2.54	2.50	2.46
Fabricated metals	2,10	2.18	2.06	1.99	3.27	3.33	3.17	3.14
Machinery, except electrical	2,48	2.44	2.50	2.42	4.70	4.57	4.73	4.72
Electrical machinery	2.31	2.36	2.39	2.27	4.45	4.47	4.50	4.42
Transportation equipment	2.32	2.40	2.34	2.08	10.92	11.25	11.59	10.91
Instruments and related products	2.28	2.36	2.29	2.27	1.69	1.76	1.66	1.64
Nondurable goods industries	1.14	1.15	1.13	1.11	0.60	0.62	0.64	0.65
Food and kindred products	0.97	1.01	0.98	0.97	(X)	(X)	(X)	(X)
Tobacco products	3.56	3.44	3.68	3.27	(X)	(X)	(X)	(X)
Textile mill products	1.70	1.71	1.64	1.50	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.34	1.35	1.34	1.31	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.33	1.35	1.38	1.31	(X)	(X)	(X)	(X)
Petroleum and coal products	0.56	0.55	0.53	0.57	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c	1.47	1.59	1.45	1.44	(X)	(X)	(X)	(X)

⁽NA) Not available. pPreliminary. rRevised. (X) Not applicable.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; bobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal rubber and plastics products, n.e.c.

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Manufacturers' Shipments, Inventories, and Orders

JANUARY 1982

U.S. Department of Commerce BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars,)

New orders for manufactured goods in January declined \$1.9 billion or 1.2 percent to \$157.6 billion, the Department of Commerce, Bureau of the Census reported today. Since orders peaked last July at \$172.6 billion, new orders have declined each month, except November when they recovered slightly from a large drop in October. Excluding the defense capital goods category, new orders declined 2.0 percent.

Shipments of manufactured goods declined for the seventh consecutive month. The January decrease was \$3.9 billion or 2.4 percent to \$157.2 billion. The book value of manufacturers' inventories declined \$1.1 billion or 0.4 percent following a decrease in December of 1.1 percent. Despite the reduction in the January inventory levels, the inventory to shipments ratio increased in January to 1.75 from 1.72 in December.

The decline in new orders for manufactured goods in January was widespread. Within the durable goods industries, which were down in total \$1.4 billion or 1.7 percent to \$78.4 billion, all major industries except transportation equipment showed decreases. Excluding defense capital goods, new orders for durables were down 3.5 percent. New orders for primary metals were down for the sixth consecutive month, as a decline in steel orders of \$0.3 billion or 6.5 percent to \$4.6 billion was partially offset by increases in nonferrous metals and foundry orders. New orders for nonelectrical machinery were off \$2.2 billion or 12.6 percent while orders for electrical machinery were down \$0.1 billion or 1.1 percent.

New orders for transportation equipment had a large increase in January, going up \$2.0 billion or 12.5 percent to \$18.1 billion. New orders for the aircraft and shipbuilding categories, both of which are heavily influenced by defense orders, together were up \$3.3 billion. New orders in the motor vehicle and parts industry were down \$1.3 billion or 13.1 percent to \$8.8 billion.

Within the capital goods industries, new orders for defense capital goods were up \$1.2 billion or 21 percent to \$7.3 billion following increases in December of 24 percent and in November of 27 percent.

New orders for nondefense capital goods were down \$0.3 billion or 1.3 percent, as a large decline in nonelectrical machinery orders was partially offset by an increase in the aircraft, missiles and parts category.

The decline in shipments of manufactured products in January of \$3.9 billion or 2.4 percent to \$157.2 billion was caused mostly by decreases in the durable goods components. The largest were in the motor vehicle and parts industry, down \$1.1 billion or 11.1 percent to \$8.9 billion; the aircraft, missiles and parts industry, down \$0.9 billion or 16.6 percent to \$4.5 billion; and the nonelectrical machinery industry, down \$1.0 billion or 5.6 percent to \$16.5 billion. The only significant increase in shipments came from the primary metals category, where an increase of \$0.8 billion or 8.0 percent to \$10.6 billion followed 4 months of declines.

For Wire Transmission 2:30 P.M. E.S.T. Wednesday, March 3, 1982

Shipments of nondurable goods were down \$0.7 billion or 0.9 percent to \$79.2 billion. The chemical industries showed the largest dollar decline, down \$0.5 billion or 3.3 percent.

The backlog of orders for manufactured goods in January valued at \$320.3 billion, increased \$0.4 billion, following 3 months of declines. A \$2.8 billion rise in the transportation equipment backlog was offset by declines in nearly all the other major durable goods industry categories. The increase in the transportation equipment backlog was due almost entirely to defense order increases. The backlog for defense capital goods at the end of the month stood at \$83.9 billion, up 3.8 percent from December.

The decline in the book value of manufacturers' inventories in January was distributed across nearly all industries, both durable and nondurable. Durable goods inventories were down \$0.8 billion or 0.4 percent to \$184.4 billion while nondurable goods inventories were down \$0.3 billion or 0.3 percent to \$90.9 billion.

The pattern of change in inventories by stage of fabrication was different between the durable and nondurable goods categories. For the durable goods industries, the value of finished goods inventories declined 1.7 percent, while the value of raw materials and work-in-process inventories showed little change from December. Within the nondurable goods industries all stages of fabrication had small decreases in January.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for February is scheduled for release on March 19, 1982, and the full report is scheduled for release on March 30, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

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	INDUSTRY GROUPS AND INDUSTRIES																	
3,	Durable goods industries Stone, clay, and glass										-							
3.2	products	506	1 K	1144	į		' 	r .	****	1.7			1 1 1	. = 3			F 6	
331	blast firmaces, steel vills	-		ě	-	1.		1.	4,46,9			1	-		I	1,	fr	· ·
34	Fabricated metal products	4,217	3,838	135	5 4	28,923	: ·	1 :	5, 4, to	F 75 7	::	: 7.	- 5	3 =	1	r x -	123,117	111, 500
34.1	Metal cans, barrels, and		×7.2	*1	2.	7 + 1 -	1	1	7,3%	8	A .	ž.			ĵ.	,	· ·	1.1
351	Machinery, except electrical Engines and turbines	16,430	1,319			4,20%	: : ;	1 2 3	1,243	1,000	1. 1.		3	: 1 1	12:	1 181	12.1	3.1
353	Construction, rining, and													-		, pro-	2	
354	Metalworking machinery	1,246	17.	411	1,00	2,783			1,131	7 7 7	1.00	1 2 3	- × -	1,12		E + 4.	1,12	1,13
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Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES -- Continued

(Willions of dollars)

				Srasot	Seasonally adjusted	P.						YOU	seasonally adjusted!	adjusted				
			Monthly	hly		O'	Quarterly					Monthly					Vnnual	
SIC	Industry									Last 4 on	onths		List	4 months a	Last 4 months a year ago			
		lan 1982	1481	1481	1 +81	1.81	1481	1,48]	1 1820	Dec. 114811	1.81	1.81	1481	[н .	1.80	1 180		<u> </u>
	IND STOA COOFFS AND IND STRIES																	
	Durable goods and industries																	
56 161, 2	Electrical machinery Blectrical transmission and	11,132	11,159	11 .11	11	33,854	5 0b.7	P. Print.	10,331	11,012	11, 84	\$ E	Ê	ii.	7		134, 44	-
~~	distribution equipment and infustrial apparatus		1,887		1 40 %	5,031	10+.	4 .	1,544	1,783	~ ? ~ ?	1.00	1 2 2	7.1		, 'r	7.7.5	; :
5 4	agot and IV		846		8,18	10.00	1, 200	* 5	239	6 6 7 7	101	1,01	- 1000	1 1 1	1 14		17,50.3	
100	Electronic camponents	2,367	2,418	12	33.0	7,018		964.7	1 001	2,2,43	5		-1			1 0	11, 11	1 1
71	Transportation equipment		10,018		13 585	30,72.	16 17		5,431	D, 43.4	10,6%	1, 4,0	r.	÷	:	r (1	13, , ,	
872,h	Arreaft, wassiles, and	4,509	905,4	. 8.	Dec.,	14,747	1, 13	1	1,896	*, 078	4,8,5	,T	96	-	, c	. 10	17,11,71	, z
17.31	Shipbool hing and military tank vehicles	1,140	1,143	116	1, 45	727.	. 10	ξ,	1,035	1,301	1 .1	1 10	1.1.1	ent post	1 -1-		13, "	
80	Instruents and related	3,908	-,241	4,100	43	12,628	17,812	£ 1	3,525	4,237		2 9	75	5 6	. Lus	7 = -	21,13	î
986	Photographic goods	1,364	1,451	1 17	1.00	700		4 339	7 20 1	1,+7.	7 9 7	1, 11	· ·				17,514	£
255	All other durable goods industries	7,584	7,837	, x	6 SQ 8	3,720	4, 30	2	5.49.0	7,138	He.	1		7		- r c	÷	7
3	Nondurable goods industries		19 Supp	2		4,870	- T	. (2	14,898	21,5-5	1, 400			ź.	T -	 	H., ort	;
01	Weat products		5,314	49.		1+,+07	3.5	0,00	37	. 303	S 2	7 -	7 1		8.43	. 111.	37,336	C (
207	Reverages		1,774	1,40	gr	5,185	5.4.	141	1,5+1	1,744	-	;	1		1 × co 3		2.2 2.2	11.17
9-4-60	All other foods		8,243	8.41		57.4.5	50 000		1,674	2 1	1 141						13,733	
1 (1	Textile will products		3,87;	7.7.		11,87	115 557	11.01.	3,547	3,713	1.00.1	0.10	1,000	, , ,	14.0	r testes	77.7.5	a ling
26	Paper and allied products		2,813	0.55		8,04X	2 2 2	N 480	2,695	2,132	8.1	· · ·	. seles	4.0			34,1%	÷.
591	Paperboard containers		1,580			544,4	7 7	÷	1,440	1,435			1	· , r	. ;		1.4.1.	
J 00	Chemicals and allied products.	2,186	15,7%	20.74		45,175	4 10	,	14,411	1 + 800	,	, c		1	1 - 1 1 -]	10.,3.5	: :
281,1	Industrial chemicals, ev-		5 171	-		5 844	*	la les	252	1. 34. 1	7	171	7 -	Y .	?		1.5, 01.1	40.
253,4	Drugs, soap, and tolletries.	3,918	C 97 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	7 2 3	11,85	11 58.	F 5	3,734	100,1	6 .	÷ ;	100	¥ ¥	, :	1	1,841	; ;
1.2	Rubner and plastics products,	15,405	Log 24m	i ×	-	7			101407								-	2
	n.e.c	3,797	3,040	- 24°	1, 145	11,25	1. 05%	n str	1,501	7, 5, 4	Ç.	,					T	
1.7	All other non-lurable goods in lustrates	11,650	11,984	1., 40		31.080	Ę.	5	10,498	11, " "	11.11.	1 4, 4	;	1 1	1 14.		140,000	_
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		Mart		114		1.,,,,,	143,148	83,171	11, 11,	1		34,100			10,082	11,800	11,033	11, 502				# # † † # # † † # * †		3,098	3,698
			-	1 45.7P		157,5 4	119,520		74, 144	47,104	74, 200	16,756	6.7,484		11,190	28,234	10,671	68,681		5,073 29,509 23,228 7,283		3,648		~	3,785 8,908 15,385
			Industry		Total	All can that tening in histories	Manufacturing industries	Manufacturing industries with	Drank goods unfastrues	Orlers		orders,	Orders, as thout unfilled	MARKET CATEGORIES	Home goods and apparel	littipment and defense products, except automotive	Construction materials, supplies, and infermediate products	inther a do titals supplies, and intermediate products	SUPPLEMENTARY SERIES?	Household durable goods indus- tries, coods industries, Valuelfense.	INDUSTRY GROUPS AND INDUSTRIES	Durable goods industries stone, clay, and glass		Nonferrous and other primary metal products	Monferrous and other primary metal products
			3Tc																			333		33-5,9	33-5,9 34 35 35

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES. AND SERPETATING SERIES -- MAIN WAR

(Millions of dollars)

				Seasn	Seasonally adjusted	ted						No	Not seasonally adjusted	ly adjuster	d1			
			Mont	Wonthly			Quarterly					Monthly	11,				Ynnual	
SIC	Industry	Jan.	Dec	Nov.	0.1.	2	111			last counts	0.0.188		Last	4 months	last 4 nonths a year ago			
		19851	1981r	1981	1981	1981r	1981	1981	Jan.	lee . 148]	Now. 1 283	0x t. 1991	Jan. 1981	1987	Now.	1 y 80	1481	1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery	11,522	111.950	11,875	10,370	33,893	30, 40.	36,281	11,410	11,120	** ** ** ** ** ** ** ** ** ** ** ** **	11,257	11,25	11,573	11,4,5	17,13	0 + 1 d + 1	130,744
363	industrial apparatus	1,800	1.917		2,494	0,470	5,937	5,77.	1,768	1,747	1,884	1,548	1, 403	1,820	1,750	1,475	768.77	2, 23
365	Radto and TV	1,055	788		804	2.258	5,1.83	2,754	836	877	000		7.7	Ne. 1	179	447	10,884	2 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °
3 27	Flectronic components	2,274	3,347	2,514	15.780	3.7.4	6,454	11/11/2 2 11/1/2	2,375	3, 14,3	5,43	2,5,3	5,11	157 F	77.7	2,203	41.038	38,248
37.2,6	parts, mestles, and parts,	6,710	4, 057		5,432	12.005	16,839	13,64.3	6,945	5.5.3	195, 4	5,834	5,340	05/240	1 4 4 4	1,871	12 , 8 18 14, 3×1	
3795	tank with les.	1,835	n.On	1,188	71.4	α :0 :1	3,450	3, 445,	1,676	57.1	1,165	1,144		1,708	7	1.576	14,247	10,408
24	products	3,907	4.111	4,378	4,,33	12, 722	15,851	1-,5-1	1,538	7	4,330,	1,32	3,00,1	1, 311	3,421	· e · · ·	n	1,38.1
25		7,682	7.841	7,586	8,086	23 513	24,238	35,353	265.0	4, 476	7,512	77 07 1. 4	7,171	7,344	, 38c.	÷	48,825	+3, 514

¹Shipments and now orders are the totals for the period and are adjusted for trading-map and calculations, unfilly Lorders and inventors, are as of the small of the period indicate not adversaries as follows.

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(Millions of dollars)

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		an that a	198.1			23,178		67,11	1,241 8,692	605'7	35,765	22,259	17.0		1,0,6	2,150	13,744	07-7- E	20,4	5, 74, 5	13,490	3,7.47	5, 25,	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1, 118	2,970	in the	15, 35 cm	12410	101	5,150	~	* * * * * * * * * * * * * * * * * * * *	d t te . 1 .
P		et a worths	Dec. 1 +80			23, 451		1,817	2,282	4,511	35, 104	22,594	7		9,020	52017	13,854	46	-, -, 3,	3,574	1, 947	1,715		59,77	1,42	166.7	0,10	11,313	7 50 3	1	, 313			5
11, adjuste	Wenthly	l a	Jan. 1981			24,457		1,844	8.714	7,500	704,50	15,490	1,188		4, 287	7.23	14,135	877	CF	1,93.	17,790	9 44b	0,400	1,874	2,147	5,022	1,	10.44	1,150	0, 137	5,405			h 14 11 1 1
vot seasonally	C to		1981			26,442	ŕ	7. T.	1,585 8,869	4,437	517,74	25,812	2,623		9,578	2,25	14, '5'	2	2,132	3,517	13,35%	2 402 5	0,00	3,2,5	144,741	5,071	1 0 10-	4, 700	5, 475	11 11	5,50.5	15 100	17, 171	-
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		Last 4 "	Dec. 1981			25,848		1,000	8,755	4,807	38,434	25,921	2,337		E67'5	2,139	10,261	21.739	1,487	3,581	12,389	7774	6,534	3,289	2,147	5,0x5	50. 02	n, 410	5, 47	0 7 7 7 0	6,450		17,6+1	5
			Jan. 1982P			25,903	4	1,940	8,878	4,762	39,507	26,351	2,263		9,556	2,236	14,287	21.840	2,100	087	2001	4,630	6,448	3,274	2,244	3,027	70,719	6,43	6,055	90649	5,542		15,14	0.1 105-11
			1980			24,350	100	1,843	1,292	4,450	35,442	21,835	2.105		9,037	2,172	14,175	200	2,138	3,771	12.480	3,628	2,102	2,594	1,471	2,953	1 10	10/24	2,545	C 10	5,232		7711	led orders
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	Auarterly.		1981			25,1157	-	1,905	1,444	4,550	28,111	24,001	2.632		9,380	2,254	14,213	20.2.00	2,272	6,4,6	12,476	3,089	5,518	2,472	2,188	1,126	7,433	0,645	5,819	000'6	5,538	1	7.	th variati
	3	=	1981			25,689	90.7	1,934	8.886	4,745	38,528	24,820	3. b 36		1,603	2,247	14,508	21 86.0	2,267	5,743	12,456	3,570	9,5184	5,018	2,255	3,059	50,210	h, 961	1,854	7,730	5,634	5	10,101	2003
ly adjusted		=	1981			26,517		2,021	1,664	4,874	39,424	25,468	2.54b		9,738	2,342	1+,880	11 B.26	2,067	5,863	12,481	3,966	240000	3,123	2,337	3,128	505,05	6,810	5,867	2,500	5,703	000	10,100	des and cal
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	Monthly		1981r			26,325		1,999	1,762	4,856	39,711	26,286	2.462		9,765	2,375	14,478	21.101	2,013	3,873	11,866	4,243	6,688	3,301	2,385	3,131	20,438	6,788	6,041	089,8	5,508		15,/13	are and are
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Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

		(Daseu	on seasons	ily adjuste	a aaca,					
			Pe	rcent chang	es				Revisions ²	
	М	onth-to-mon	th	Avera	ge monthly	rates of ch	ange ¹	Vear	Average	monthly
Item and industry group		Nov. 1981- Dec. 1982		Fourth quarter 1981	Third quarter 1981	Second quarter 1981	Jan. 1981- Jan. 1982	ago Jan. 1981	Jan Dec. 1981	Jan. 1977- 1981
Shipments:										
All manufacturing industries	-2.4	-0.6	~1.3	-1.5	-0.6	+1.1	-0.3	0.0	0.2	0.3
Durable goods industries	-→ U	-0.6	-1.1	-2.0	-1.0	+1.4	-0.6	0.1	0.4	0.6
Nondurable goods industries	-0.9	-0.5	-1.4	-1.0	+0.1	+0.8	-0.1	0.2	0.3	() ₋₄
Inventories:										
All manufacturing industries	-0.4	-1.I	+0.4	-0.0	+0.8	+0.4	+0.5	0.3	0.1	1,
New orders:										
All manufacturing industries	-1.2	-0.3	+0.6	-1.8	-0.5	+0.7	-0.5	0.3	0.4	0.6
Durable goods industries	-1.7	-0.2	+2.8	-2.6	-0.8	+0.6	-0.8	0.3	0.6	
Nondurable goods industries	-0.6	-0.3	-1.5	-1.0	-0.2	+0.8	-0.1	0.3	0.4	0.5
Unfilled orders:										
Durable goods industries	61.2	-0.4	-0.5	-0.8	+0.3	+0.2	0.0	0.1	0.1	0.1

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTOBLES TO SHIPMENTS AND UNTILLED ORDERS TO HIPMENTS, BY INDISTRA GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entories	hipments ra	t10	lnfil		hipments : backlog)	ratio ¹
industry group	Jan. 1982	Dec. 1981	Nov. 1981	Oct. 1981	Jan. 1982	Dec. 1981	Nov. 1981	0ct. 1981
All manufacturing industries	1.75	1.72	1.73	1.70	3.84	5.7+	3.72	3.74
Durable goods industries. Stome, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products.	2.37 1.80 2.38 2.24 2.57 2.36 2.59 2.46	2.28 1.52 2.57 2.15 2.44 2.36 2.28 2.30	2.29 1.80 2.38 2.18 2.35 2.40 2.36	2.26 1.80 2.28 2.06 2.50 2.39 2.34	4.65 0.64 2.39 33.44 4.72 4.67 12.35	4.51 7.68 2.71 3.36 4.65 4.62 10.61 1.69	4.49 0.67 2.54 3.33 4.57 4.47 11.25 1.76	3.49 0.65 2.50 3.17 4.73 4.50 11.59 1.66
Nondurable goods industries. Food and kindred products. Tobacco products. Textile mill products. Paper and sallied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.	1.15 0.39 3.67 1.64 1.32 1.33 0.57 1.44	1 14 , 99 3 56 1.73 1.35 1.29 0 5h 1.49	1.15 1.01 3.44 1.71 1.35 1.35 0.55	1.13 0.98 3.68 1.64 1.34 1.38 0.53	(X) (X) (X) (XA) (X) (X) (X) (X)	(X) (X) (X) (AZ) (X) (X) (X)	0,62 (V) (V) (NA) (NA) (X) (V)	(X) (X) (XA) (NA) (NA) (X) (Y) (X)

^{*}Revised. (\) Not applicable.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

^{*}Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, harrels, and drums, tarm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey provides broad-based monthly statistical data on economic conditions in the domestic manufacturing sector. It is designed to measure current industrial activity and to provide an indication of future trends. The data are used extensively by the executive branch of the Government in developing economic, fiscal, and monetary policy; by the Bureau of Economic Analysis (BEA) as components of the gross national product estimates; and by trade associations, corporate economists, and other members of the business community as an analytical tool in their assessment of the current and future economic condition of the country.

The M3 shipments and inventory data are comparable to the totals published in the Annual Survey of Manufactures (ASM). The ASM is a sample survey of approximately 70,000 manufacturing establishments drawn from a 5-year census of manufactures universe of about 350,000 manufacturing establishments. In the ASM, each manufacturing location reports data on value of shipments, beginning and end-of-year inventories, as well as various other economic variables.

The monthly M3 estimates through 1980 are based on information obtained from approximately 4,500 reporting units and include most manufacturing companies with 1,000 or more employees. In addition, selected smaller companies are included to strengthen the sample coverage in individual industry categories. For firms which operate in a single M3 industry category, the reporting unit typically comprises all operations of the company. At the request of the Census Bureau, most large, diversified companies file separate reports for divisions which operate in different industrial areas.

Each company or reporting unit of a company in the survey is classified into 1 of 79 industry categories for which separate estimates are made based on the major activity of the reporting unit. Some reporting units include industry activities outside the M3 category in which they are classified. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category.

The M3 series is periodically benchmarked to the Census of Manufactures and the ASM for shipments and inventories. The most recent benchmark included data for 1977 and 1978. Since benchmark data for unfilled orders are not available, levels are based upon the ratio of unfilled orders to shipments of reporting companies. In the 1977-1978 benchmark report, unfilled orders levels were revalued based on unfilled orders to shipments ratios of reporting companies in the monthly M3 survey; the MA-300, a one-time annual supplemental survey of multiestablishment companies; and the ASM for single-establishment companies.

MONTHLY ESTIMATING PROCEDURE

The monthly estimates of shipments, unfilled orders, and total inventories are derived for each industry category by

multiplying the industry estimate for the previous month by the percentage change from the previous month for companies reporting in the current month.

Though collected as a separate item, new orders are not calculated according to the standard ratio-estimate procedure. The reason for this is that not all companies report new orders and some that do report this item limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. New orders are, therefore, computed by adjusting the current month's shipments by the change in the backlog of unfilled orders. (New orders equal current month shipments plus current month unfilled orders minus prior month unfilled orders.) Thus, the estimate of new orders includes orders that are received and filled in the same month as well as new orders that have not yet been filled. Also included are the effects of cancellations and modifications on previously reported orders.

SEASONAL ADJUSTMENT

The monthly data on shipments, inventories, and unfilled orders are adjusted for seasonality at the most detailed level tabulated in the survey, using the X-11 variant of the Census Bureau's seasonal adjustment program. Data from January 1958 through December 1980 are included in the calculations of the factors used in this publication.

Seasonally adjusted industry aggregates are derived by adding seasonally adjusted components rather than by direct seasonal adjustment of the aggregates. New orders data are not independently seasonally adjusted but are derived at the most detailed levels from the seasonally adjusted shipments and the change in the seasonally adjusted unfilled orders and then similarly aggregated.

EXPLANATION OF TERMS

Value of Shipments—The shipments estimates published in the monthly survey are equivalent to value of shipments as reported in the ASM which are net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments is the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the shipbuilding industry, the value of shipments in a given time period varies considerably from the value of work done because of the long lead time between the input of the materials and labor and the delivery of the completed ship. For this industry and for aircraft and missile producers working under cost-plus contracts, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and M3 industry

category levels since the products of some four-digit SIC industries are used as materials by other industries within the same industry aggregate. The significance of the duplication within the specific M3 industry categories varies depending on their four-digit industry composition. It is most pronounced in a few highly integrated industry areas, such as primary metals and motor vehicles and parts.

For multiunit companies, the M3 reports received each month typically are not plant reports but are company or divisional level reports that encompass groups of plants. The actual sales reported are usually net sales and receipts from customers and exclude the duplication of interplant transfers. The reported sales are used to calculate month-to-month changes which bring forward the plant-based shipments for the industry category as estimated in the ASM.

Inventories—In the monthly survey and in the ASM, respondents are asked to report their inventories at book values. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of aggregate inventories for all plants in an industry is not precise.

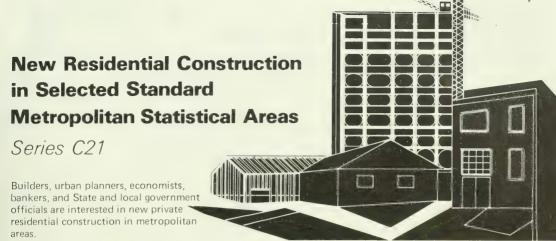
There are also some inconsistencies between the M3 company or divisional reported inventory levels as compared with the ASM establishment reported levels. The change in the value of inventories, month-to-month as well as year-to-year, is considered to have greater significance and reliability.

Inventory data are requested from respondents by stage of fabrication, i.e., finished goods, work in process, and raw materials and supplies. However, the quality of these data is limited due to lower response rates and the inclusion of the same type of inventory under different stages of fabrication in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations received during the month on orders previously reported. They include orders received and filled during the month as well as orders received for future delivery. They also include the net sales value of contract changes which increase or decrease the sales value of the unfilled orders to which they relate. Orders are defined to include only those supported by binding legal documents such as signed contracts, letters of award, or letters of intent, although in some industries this definition may not be strictly applicable. In the case of letters of intent, the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included.

Unfilled orders include orders as defined above that have not been reflected as shipments. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net shipments.





The following standard metropolitan statistical areas are shown in this series. . .

Anaheim-Santa Ana-Garden Grove, California

Baltimore, Maryland

Chicago, Illinois

Cincinnati, Ohio-Kentucky-Indiana

Denver-Boulder, Colorado

Detroit, Michigan

Las Vegas, Nevada

Los Angeles-Long Beach, California

Miami, Florida

New Orleans, Louisiana

New York, New York-New Jersey

Phoenix, Arizona

Portland, Oregon-Washington

Riverside-San Bernardino-Ontario, California

Sacramento, California
Salt Lake City-Ogden, Utah
San Diego, California
San Jose, California
Seattle-Everett, Washington
Washington, D.C.-Maryland-Virginia

For these SMSA's quarterly data are provided on the number of housing units. . .

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Started

Completed

Under construction

Authorized, but not yet started

U.S. Department of Commerce BUREAU OF THE CENSUS

U.S. Department of Housing and Urban Development

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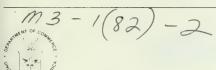
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3.158:

CURRENT INDUSTRIAL REPORTS



Manufacturers' Shipments, Inventories, and Orders

FEBRUARY 1982

For Wire Transmission 400P.M. E.S.T. Tuesday, March 30, 1982

U.S. Department of Commerce BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in February increased \$1.4 billion or 0.9 percent to \$158.6 billion the Department of Commerce, Bureau of the Census reported today. This is the first increase in orders since a 0.6 percent increase in November and the second since last July. The February increase in new orders was caused mostly by a \$1.0 billion increase in orders for defense capital goods. Excluding the defense capital goods category, new orders were up \$0.4 billion or 0.3 percent.

Shipments of manufactured goods increased in February \$2.7 billion or 1.7 percent to \$159.7 billion. This is the first increase in shipments since last June when they were valued 7.4 percent higher at \$171.5 billion.

The February increase in new orders was concentrated in the durable goods industries. Orders for transportation equipment were up \$1.1 billion or 6.0 percent to \$18.9 billion. Nearly three-fourths of that increase was attributed to the motor vehicle and parts industry, where for the automotive assembly portion new orders equal shipments for the month. New orders for fabricated metal products were up \$0.6 billion or 6.7 percent to \$9.5 billion.

The largest decrease in new orders was in the primary metals industry where orders have been falling since last July. February orders were down \$0.6 billion or 6.2 percent to \$8.6 billion. Most of the February decline was caused by the steel industry which fell \$0.5 billion or 10.7 percent to \$3.9 billion.

Within the capital goods categories, new orders for nondefense capital goods in February declined \$0.5 billion or 2.1 percent to \$21.5 billion, while orders for defense capital goods increased \$1.0 billion or 13.7 percent to \$8.3 billion. New orders for household durables declined \$0.1 billion or 2.3 percent to \$4.8 billion.

The increases in manufacturers shipments in February were widespread. Within the durable goods sector the largest increases occurred in the transportation equipment and nonelectrical machinery categories. Shipments by the automotive industry were up \$1.0 billion or 10.7 percent to \$10.0 billion, but substantially below the peak of \$13.4 billion reached last July.

Increases in shipments of farm machinery, construction equipment, and office and store machines contributed to the \$0.9 billion or 5.7 percent increase in nonelectrical machinery shipments.

Within the nondurable goods sector shipments increases were reported in all industries except petroleum products. The increase in nondurable goods shipments of \$0.6 billion or 0.8 percent to \$79.7 billion was minimized due to a \$1.0 billion or 6.4 percent decline in the petroleum products industry. Excluding that industry, nondurable goods shipments were up 2.5 percent for the month.

The unfilled orders level of manufacturers declined in February \$1.1 billion or 0.3 percent to \$319.0 billion. For the last several months the backlog data have been heavily influenced by increases in orders for defense capital goods. Excluding the defense area, the unfilled orders levels of manufacturers have been declining since July at an average rate of 1.2 percent per month. The July level was \$252.3 billion.

The book value of manufacturers inventories in February increased slightly, following 2 months of declines. At the end of February, inventories were valued at \$276.6 billion, up \$0.7 billion or 0.2 percent from January. The inventory level of nondurable goods manufacturers increased \$0.5 billion or 0.5 percent to \$91.6 billion, mostly due to an increase in petroleum inventories of \$0.3 billion. Excluding the petroleum products industry, inventories of nondurable manufacturers also showed little change from January.

The inventory to shipments ratio for February dropped to 1.73 from 1.76 last month. Prior to this, the ratio had shown little change since October.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for March is scheduled for release on April 21, 1982, and the full report is scheduled for release on April 30, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable, currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy. \$3.60 per year.

TABLE 1. WALLE OF WANUFACTURERS' SHIPMENTS FOR INDUSTRY JOURS, WAREET CATEGORIES, AND SUPPLEMENTARY SERIES

1						46.5 448	Tac ace	34. 3	44h 35	R. min	106 101	151		129 64"	12.8.4	, ,	427 554		38 443 308 568 267 210 41,159		45,518 - 923 13- 051 62,481	58,485 115 868	1, 144 182 83 13.834 13.649	35.28° 11.185 15.48°
		Asnual	-	,		44, 1, 1	"" N, 114 1, t	- 12 B.28	· · · · · · · · · · · · · · · · · · ·	832 223	968'	009		140,530,	3.16.543	2 · · · · · · · · · · · · · · · · · · ·	841,128		14 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		5 44.051 5 44.9 137.470 70 433	>+ 039 125 117	9 491 204 644 16,447	-0 160 11.636 17.174
			c	1481		lnl aug l	145,235 1	s. mar. 1	45.45	1 ch 80	14,0031	15.4.4		12 235	23,443	12 ×5.8	11 2 74	-	3 703		3, 97, 405 11, 190 8,556	10 232	15,349	2,729 972 1,295
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	seasonally adjusted ¹		- ronth	lan.	-	1	136 554	e ~ ?	, th	h 1 1 5	10, 9,	7		€. 2. €.	73		£ . [3.2.41		11, 15 to 18	4 50 +	15,150	3 069 857
		ly	Last	Feb. 148]	-	la' las	Int wo	, x	£ 1	45 y	M41b	20 22		28,741	5 6	5	.0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5 +03 112 253 4,108	10,405	10,982 1 158 1 221	1,056
	Yot	Wentely		1.481		161 275	143 84.	* 55	80 44.	1.7.70	40 9 6.1	12 127		12 935	7.7						3.824 4.6 10,114 5.154	3,449	16 975 1,394 1,394	3,333
			* 98 th s	1 481		15 678	134,034	; ;	3	57.31.	, , , , , , , , , , , , , , , , , , ,	16.281		28,402	¥. =	808			1 0 0 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		141 141 190 190 190	8.850	17, 959 1,320 1,320	1,414
			Last 4	136.	-		1-1 1-1	ž. 1,	;	7.61	;				- X	7			1 4 5 mm		2 × 6 × 5 × 7 × 7	3, 3-6	11.84.0	3,424 889 11,258
				48.		1-1 23	144		×	*	i i	1		11 75 4	7 1 2 2		11.11		4 8 7 4 4 8 8 8 3 4 8 8 8 3 5 8 4 4 4		2 54.0 1.0 1.35 5.14.5	9,402	817 17,599 1,398 1,094	1,488
Williams of Jollans			-	L		11 900	284 , 44	255 161	10, 10,	1 45.	11. 44.	19,11		47, 1% 4 86, 54	4 1	3			16,241 84,494 7,453 12,017	Ī	12,580 13,55 18,45	13,454	50,414	4,856 2,410 4,282
Willions		quarterly		- ~	F	124, 421	431, Jb4	13 K. B. L.	F. J. 5.54	11.288	48 384	1 10 11		6, 7, 8	î	111	19.30		16,146 85,474 73,112		1, 278	14 018 31 265	2,441 51,669 4,404 3,817	10,166 2,989 4,385
	P	45		1441		1, 1,	435.312	28 445	(s c e)	2.1. 6	: :	. 1°× '01		14, M32	X				15 143 11 14 11 14 15 16 15 16 16 16 16 16 17 17		11, 52, 11, 46,7	12, 348	2,481 51,787 4,204 3,501	10,576
	ully adjusted			1381		161,972	143,176	Ab, tun .	M1.64]	64,331	× 113	1.01.	-	111,794	11 600				28, 28, 23, 28, 24, 24, 34, 34, 34, 34, 34, 34, 34, 34, 34, 3		1 860 494 10,635 5.318	9,494	812 17,446 1,492 1,151	3,588
	Seasonally	ly	-	1481	1	161,381	143,634	80,541	81,146	58 bul	5.	16.450		11,088	28,040				24,377		5 822 9 881 5 144	3,828	17,417 1,319 1,168	3,605
		Monthly		Jan 198, 1	3	130 476	141,779	н, 474	77,855	D. 4.4.	79,171	16,535		11.179	24,509		7.1,493		27,017		3,877 508 10,542 5,407	4,186	16,367 1,359 1,359	3,151 1,007 1,404
				1982P		159 672	143.127	84,791	19,944	67,821	79,728	16,470		11.755	9,8,85				28.558 24.010		3, 831 9, 838 4, 963	3,950	864 17,308 1,292 1,917	3,454
			Industry		TOTALS	All manufacturing industries	Nanufacturing industries excluding transportation	Manufacturing industries with unfilled orders	Durable goods industries	Durable goods with unfilled orders	Nondurable goods industries	Nondurable goods with unfilled orders	MARKET CATEGORIES	Home goods and apparel	Equipment and defense products, except automotive	Construction materials, supplies,	and intermediate products Other materials, supplies, and intermediate products	SUPPLEMENTARY SERIES ²	Household durable goods indus- tries. Capital, goods industries. Nondefense.	INDUSTRY GROUPS AND INDUSTRIES	Durable goods industries Stone, clay, and glass products. Class containes Finary metals.	Nonferrous and other primary metals.	Netal cans, barrels, and drums. Machinery, except electrical. Engines and turbines. Farm machinery and doupment.	Construction, mining, and material-handling equipment. Netalworking machinery
			SIC																		32 32 33	333-9	341 35 351 352	353 354 356

See footnotes at end of table.

VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES-CONTINUED Table 1.

							(Millions	(Millions of dollars)	S)									
				Seasonally	ally adjusted	pa						Not	seasonally	y adjusted	1			
			Monthly	hly			Quarterly					Wonthly	1 y				Annual	-
SIC	Industry	4.5	i e	Doc	Nov	VI	111			Last 4 m	months		Last	4 months	a year ago			
		1982P	1982 ^r	1981	1981	1981	1981	1981	Feb. 1982P	Jan. 1982 ^r	Dec. 1981	Nov. 1981	Feb. 1981	Jan. 1981	Dec. 1480	1980	1981	1980
	INDESTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
2	Electrical machinery	11,272	11,066	11,159	11,433	33,854	35,062	34.649	11,521	10,276	710,11	11,583	11,293	9,986	16,596	11 201	136,583	125 907
	distribution equipment and industrial apparatus		1.782	1,887	1,903	5,658	5,901	5,738	1,903	1,708	1,78,	1,875	1,903	1.640	1.8.1	1 879	22 697	21,869
	Household appliances,		466	953	1,058	3,031	3,291	3,459	400	07.0	9/9	766	1,140	1,008	666	1 110	10 777	9.002
0.0	Radie and Ti		3.261	3 175	3,242	9,662	9,825	9,507	3.376	3,018	3.482	3 213	2,974	2,656	2.8852	1887	37,863	33 570
	Electronic components	16,545	15,247	17,427	16.803	51,428	57,354	58,531	16.848	14,901	16,569	17,433	17,700	15,535	16 653	18,256	219,751	191 387
2,0	Notor vehicles and parts Aircraft, missiles, and		CTO'A	010.01	0 10 10	17.00	4000			3000	-			9		9		100
	parts	4,364	+,371	5.408	4,789	14,747	7,1,100	1+,459	7 7	3.797	0,0	97.87.6	700.1	5,738	4.751	8/0'+	1/1.0	21 007
35	tank vehicles	1.308	1,076	1,165	1,216	3,474	3.016	3,520	2,221	196	1,301	1.214	1,068	066	1,129	1,018	13,969	12,505
7	Instruments and related products	3,917	3,920	4,241	4,146	12,628	12.812	12,495	3,823	5,532	4,237	2,445	2,325	3,641	4,054	4 104 2 308	50,233	45,993
98	Photographic goods	1.412	1,413	1,451	1,402	4,282		4,367	1.314	1.180	1.472	1,509	1,413	1,183	1,422		17.554	16.273
	All other durable goods industries	7,735	7,650	7,837	7,824	23,720	24,338	25,524	7.443	6,493	7,128	7,768	8,177	6,971	7,471	8,150	98,503	93,464
	Nondurable goods industries Food and kindred products	22,454	21,914	21,296	21,493	998' 99	67,512	67,307	22,642	21,361	21,343	21,900	22, 348	20 901	22,383	22.574	200,111	
	Meat products	5,286	5,395	5,319	5,506	16,407	17,322	16,070	5 350	5,249	5,383	5,550	5,243	5.241	5,400	5,309	15,465	
	Beverages	1,702	1,632	1,774	1,005	5,185	5,375	5,189	1,808	1,614	1,749	1,717	1,752	1,771	1,752	1,830	996 07	
3-6,9		9,126	8,751	8,243	8,451	25,446	26,509	27,271	9,473	7,990	8.573	8,680	9.711	8,633	9 773	1,502	107 617	
	Tobacco products	.,011	3,797	3,875	3,934	11,870	13,337	13,012	3.974	3.431	3,703	4,001	4,130	3,684	3 599	3.40%	50 682	
	Paper and allied products	6,501	6,530	6,553	6,533	19,575	19,476	19,354	100,0	6,250	5,943	6,347	6,679	6.036	5 855	5,380	17 745	
2-3	Pulp, paper, etc	1,637	1,572	1,580	1,675	4,845	4,999	4,970	1,651	1.451	1,436	1.630	1.020	1,486	1,40	1 482	13 657	17 880
	All other paper products	1.978	2.131	2,154	1,957	6.182	5,803	5,904	2,015	2,108	1,925	1,855	2,116	1 934	1,789	1 809	23 904	
9	Chemicals and allied products	10,134	12,079	13.794	13,320	6.1'05	10.00	0.01		200	000,11	7	2					
	cept plgments	4,879	906*+	5,171	5,128		15,229	16,135	5,084	4.719	6.949	4,785	5,604	479	5 278	4,885	194 5	24 457
3,4	Drugs, soap, and tolletries	14,142	15,112	15,542	15,830	47,851	48,313	48,730	14,457	15,13%	15,846	15,778	17,091	15.865	15,880	15 553		175 598
	Rubber and plastics products,	3,749	3,673	3,698	3.642	11,285	12,056	11,886	3.891	1.387	5.329	3,525	3,869	3 017	3,530	, YO'+	0+9 ur	48 060
	All other nondurable goods	12,527	11,86-	11,984	12,405	35, 588	37.392	36,304	12,565	19,674	11,036	13,103	11.942	10 435	10 513	12 187	140,350	133 1.5
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dispensis and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders are it of the end of the period and are not adjusted for

adding-door calculations.
The supplementary series are regroupings of the separate industry categories as follows
The supplementary series are regrouping to the separate industry categories and pottery, cutlery, handtools, and hardware; household dappliances; radio and TV; ophthalm: goods, matches, and clocks and niteellamouse personal goods

(apital pools industries—domainle to the prestous producers' capital goods and the defense products in the separate sport of any analysis of any analysis and securities and securities and securities (excluding household appliances; radio and TV, and electronic components, and
Nodeforse [reduces = Santonic and securities and rational equipment, communication equipment, communication equipment, and ordinance and defense one; filted by happened and defense one; filted by happened communication equipment, and entered the securities and any securities and any securities and any securities and any securities and any securities and any securities and any securities and any securities and any securities and any securities and any securities and any securities and securities and securities of the securities of the securities of the securities and securitie

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» IC	Inclustry		-							last 4 *	* antic-		-	1	1 Year upo	2			1
		1,48,0	114	, i	145		-		£ 4			- - : : : : : : : : : : : : : : : : : :	. 4	1	: 4	1.2	-	<u>.</u>	
	TOTALS																		1
	All candact fring inclusives	1 18, 19 5	1,200	100,409	1 4.4 4	*	411 114	,	*.		:				7.	· ;		;	
	Manual Statement of the statement of the	1 54,646	1 14, 13	14 . 118	1	11	1477		; ; ;		1	:	1 1 .4.					1	3
	unfilled orders	83,712	83,700	5 5.15	1 F		. 10		3, 1, 1, 6	; ;			<i>i</i> .	÷	ţ,	,		**1.54	· r
	Durable goods industries.	74,418	78,105	1 1. 1		i	-			÷	,		1	-	· ·		,		-
	Orders.	1567,50	91.9199	2.11	1.	11.4.11		E 11)	, . r.o	5 . 5 .	81, 11	***************************************	1.1.1	7		1	7		;*
	Nondarable goods industries	71,175	14,044	1, 11.	11, 10	x.				*	5	1		7.	,	,	1	7	*
	Tradective with different	11,417	16, 10%	.:			1000		16.11		:	i i			÷	11111		***	
	orders	62,738	62,382	7		-		:	54.6%	;		× - · .		£ .	÷		1	, e	
	MARKET CATEGORIES																		
	Home goods and apparel	11,36,1	28,840	1.8	= : : = :		. 3	*. :		7 /		*.	_ ;	. ;	;	1 1	7	7.	, :
	Equipment and defense products,																		
	Automotive equipment	.1, 186	10,013	11.6.11	17	; · ;	P 4	: 5		T		·	* 4	: ::			à đ	7	5
	onstruction materials, supplies, and interprediate products	10,92,	10,778	11. 44	11 000		::		10, 17	1,,		; _;	``.	*12 ,	,	-	1		,
	interwediate products	67,568	00,-100	11.	1.4, 445.	<u>.</u>				7		- 1	,	;		:		* ,	
	SUPPLEMENTARY SERIES?																		
	Household durable goods undus- tries. tries. Aptical goods industries. Non lefense. Detense.	784 7, 4,816 71,011 5,300	21, 92		4	7 7 2 ,7 2 2 3 2	11 m.	· = = = = = = = = = = = = = = = = = = =			7 y	1777	10	1 - 1	· ·	1. +=	. : 7.	= ; -	<u>, = = =</u>
	INDUSTRY GROUPS AND INDUSTRIES							-		-									
	Durache goods industries Stone, clay, and glass. Privacy metals.	3,785	3, 64v	2 × + + + + + + + + + + + + + + + + + +	141	1 × ×	i i :	2 2 2	2 2	12.7	-		j,	7.1		1.7	7.42	420	ed e
3-5,9	Nonferrous and other primary								-					Ī					4
	Fabricated metal products	9,436	8,86.	17.30	17.		7.7.5	- X X	E 4,	5 56	·		1:	f ()		: .: : .:	477	144.X.	1 - 1
- m	Engines and turbines		1,183	1. 30	7 1	4. 134		, , , , , , , , , , , , , , , , , , ,	156	1,050	1.4.1		1 1 4	1 1 1 1	- Pari	1 111	1- 1-6	-	. ?
40	material-handling equipment. Metalworking muchinery General industrial machinery.	2,832 690	2,464	1,.71	5,613 645 1,350	1,87	1 100 1	* 1 3 3	3,030	n 2 2	- 4		4 1 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ £ £ 1	17.1	1, 181	11 0 8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~ 2 :
See	See footnotes at end of table.																		

							CHATTORIS	Catalons of dollars)	101									
				Season	Seasonally adjusted	ted						No	t seasonal.	Not seasonally adjusted	d.l			
			Mont	Monthly			Quarterly					Wonthly	1 y				Annual	
SIC	Industry			3	2	Ē	-			1301 . 1	* 110011115		Last	4 months a year	a vear ago			
		1982P	1987	1981	1981	1981	1961	1981	Feb. 1987P	Jan 19m?r	Dec .	1961	Feb 1981	lan lyxl	198.)	Nove 1480	1441	1986
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
36	Electrical machinery	11,325	11,506	11.65 '	11,673	33,893	36,462	36.281	12,144	11,419	11,12	11,589	12,047	1111	10.578	11 476	14) 841	130 744
	industrial apparatus	1,627				5,430		5.770		1.797	1.747	1,889	2,039	1.453	1 8,00	1 739	6.8	11,221
363	Household appliances	939				1.981		1,41		168	891	94.9	1,18	1, 129	5+6	1,431	13 116	1.,518
365	Radio and TV	743	830	77	750	2,738	3,083	1.724	823	959 820	75	83+	1,099	2.58	1 C 2 C		* . ·	7.973
367	Flectronic components	2,426				2,262		7.4.15		2,421	2.294	308	2.577	2.115	1.841	F 19. C	28.2 41	7n.845
2,4	Transportation equipment	18,947				47,780		57.848		17,642	11,747	16,500	12,758	17,479	17,581	17,393	120 × 08	11. 1576
372,0	Aircraft, missiles, and																	
22.23	parts	6,873	6,626	4.057	3,956	12,355	16,634	15,00	5,722	6, 44.0	5, 43	1, 39.	4,103	3. 145	5,540	1.364	59.381	63,658
3795	tank vehicles	1,393	1,336	7. E	1,188	7,558	3,900	3,396	1,183	1.388	57.0	1,185	1.364	1	1,7.18	51.	14 46	15,41 8
38	Instruments and related	4.163	2 803		. C7x	11.71.	. 8	7	7 00 7	5 53 3	1	7.82	I.		1111	1200		
24	411 other durable goods	7047							1701	176 16							7	0000
34	undustries	7,732	7,787	1 48 1	1,584	23,513	24.138	5 05.50	7,504	699'9	976.4	7,512	Dist. X	7 170	7 544	207 8	48.5 h	43 314

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Superiors and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations infilled orders and inventories are as of the end of the prival and are not adjusted for tradiments or caledar-worth cartifors. The separate industry categories as follows:
The supplementary series are regroupings of the separate industry categories as follows:
The supplementary series possessing industries of the separate industry categories, and pottery, handroots, and hardware; household applicances, radio and TV. optnalaxt goods, eatchee, and household durable goods industries—possessing furtient, kitchen articles and pottery; cattery, handroots, and household applicances, radio and TV. optnalaxt goods, eatchee, and

neous personal goods.

(Tabled) industries—departed to the previous producers* capital goods and the defense products fold serves categories.

Sond-departed cooks industries—departed forced in a state of the graphent and related parts, and otherwise the protocol of subpositions and arithment of arithment and arithment and arithment arithments are related forced in the following industries—obstance, communication equipment, arithments of subpositions of subpositions of arithment arithment arithments are related forced forced forced forced forced for the force one, the first land arithment arithment arithment arithment arithment and arrest parts, and subposition of defense one. The Marity is a first produced forced for the force of defense one. The Marity is a first produced forced for the force of the first parts and arithment for those published annually in the Wally. Supposite of forces of the first parts are comparable to those published annually in the Wally. Supposite forces of the first parts are comparable to those published annually in the Wally.

Table). WITH OF MAN INTITLES TWELLIND HOURS ON INDESTRY COTTS, CART CITED CLEA, AN SITE BASTARY SHILL

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See fuotnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLIMENTARY SERIES - CONTINUED

(Millions of dollars)

										The same of				-				
					Seasona	Seasonally adjusted	p						Not	seasonally	Not seasonally adjusted ¹			
			Mon	Monthly				Quarterly						Monthly	21			
SIC	Industry group	1						,				Last 4 wonths	onths		Las	t 4 months	Last 4 months a year ago	
		1982P	J982	1981	1981	1981	1981	1981	1,480	1480	Feb. 1982P	Jan.	Det .	1 +81	Feb. 1981	Jan. 1+81	1980	1.484
	INDUSTRY GROUP AND INDUSTRIES																	
361,2	Durable goods industries contanued Electrical machinery	52,054	52,002	21,563	51,072	51,526	50,124	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	17,2,5	2,819	52,505	51,882	50,741	50,030	0.67	+11,70h	1: 1: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:	1001 144
363	distribution equipment and industrial apparatus					8,429	8,392	5,361	7,907	7,905	8,008	8,128	8,140	2.7.	7 ()	5,155	33.	7,845
345 367 37	Radio and TV	418 29,776 12,341 118,950	29,537 29,537 12,271 116,546	29,180 12,286 113,927	,431 28,958 12,084 115,283	2 4 1	378 .7,542 12,267 115,515	-	25,427	23,863 12,135 112,135	30,302 12,317 120,019	29,825 12,087 119,012	28,995 11,905 115,369	26,833 11,403 115,291	26, 307 11, 742 116, 314	11,016	311 25,280 11,659 114,52	24,914 12,71 12,21
372,5	Arreraft, missiles, and parts	95,200	92,689	90,435	41,187	93,126	90,500	91,299	88,371	911,466	96,280	95,031	91,877	42,012	41,076	41,325	84,555	× 2,174
37.45	tank vehicles	16,932	16,847	16,387	16,944	17,305	16,955	16,478	16,087	15,421	16,767	16,805	10,598	17,129	15,647	16, 536	15, MX	15,484
25	All other durably goods industries.	7,378	7,132	7,160	7,290	7,067	7,056	7,012	19,18/	0,863	7,298	4,514	4,337	7,11,7	., 001		7,021	^ 17 7

-Sampments and no orders are the totals for the period and are adjusted for training-day and calendar-month variations, untilled orders and inventories are of the med of the period and are adjusted for training.

The supplementary series are recompanies of the separate industry categories as follows flowed processes are formatives, and otherwise and portery, categories and portery, cutlery, handtools, and hardware, household darphance goods and strikes—household furniture, categories and portery, cutlery, handtools, and hardware, household darphance goods and IV, ophthabence goods and strikes—household furniture, categories and portery, cutlery, handtools, and hardware, household darphance goods and strikes—household furniture, categories and strikes. lay

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	orders	20,442	20,485	4		x'	:	,	* * * * * * * * * * * * * * * * * * * *		ji E.	î,	4	, H	<i>i</i>	14,+13	18,867	18, 800
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	Equipment and detense products except automotive	76,706	76,247	76, 5.4	ŕ.	:				X,	20 1	76,125	Gr. * * * c	7 2 4	71,4%5	76,667	64,123	7
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	and intermediate products	21,950	22,246	200		23, 100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	£ .		* × .	t,	2	1:1	7	570,11	1, 1, 1	7.	6.710
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	SUPPLEMENTARY SERIES										_							
	Household durable goods infuse trics	10,837 86,352 72,317 14,035	10,902 85,751 71,946 13,805	16,880 85,800 7.,183	5547	1201	1 5 2 1 1 5 2 1	110, 286 40, 40 111, 484	* * 1 ± 5	2 1 2 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	10 440 13 440	10,7,1 88,38, 71,748 115,637	1, 25 21, 34 21, 34 21, 34 21, 34	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	10,111 40,45 58,856 11,592	######################################	7, 130 7, 180 8, 381 10, 744	10,140
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35 35 351 352	Weral cans, barrels, and drums. Wachinery, except electrical. Engines and turbines. Farm machinery and equipment.	1,552	1,513	55.7	1,13	2,585		1,63,7 1,63,7 1,809,3 1,809,3	1,744	1,578	1,564	1,454	1,143 2,112 2,538 2,799	1,241	34,74	34,402	35.884	38,972
354	Construction, maining, and material-handling equipment. Wetalworking machinery	9,817 2,548 3,923	9,648 2,520 3,438	10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3, 484	2,749	8,784 2,030 3,753	3,503	8,446	8,650	9,974 2,551 3,962	4 773 2,520 5,974	4,715 2,512 3,845	4,546	8,495 2,700 3,677	8,472 2,732 3,648	8,421	8,502 2,802 3,518
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Table 4. TALUE OF WANTFACTURERS' INVENTORIES FOR INDUSTRY ORDIPS, MARKET (ATEKORIES, AND SUPPLEMENTARY SPRIFS--CONTINUED

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Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

				mazzy majaw						
			Pe	ercent chang	;e				Revision ²	
	Me	onth-to-mont	h	Avera	ge monthly	rate of ch	ange ¹	Year	Average 1	nonthly
Item and industry group	Jan Feb. 1982	Dec. 1981- Jan. 1982	Nov Dec. 1981	Fourth quarter 1981	Third quarter 1981	Second quarter 1981	Mar. 1981 through Feb. 1982	ago Feb. 1981	Feb. 1981 through Jan. 1982	Feb. 1977- 1981
Shipments:										
All manufacturing industries	+1.7	-2.5	-0.6	-1.5	-0.6	+1.1	-0.3	0.1	0.2	0.1
Durable goods industries	+2.7	-4.1	-0.6	-2.0	-1.0	+1.4	-0.4	0.3	0.4	0.3
Nondurable goods industries	+0.8	-1.0	-0.5	-1.0	-0.1	+0.8	-0.2	0.7	0.3	0.5
Inventories:										
All manufacturing industries	+0.2	-0.3	-1.1	0.0	+0.8	+0.4	+0.4	0.4	0.1	0.0
New orders:										
All manufacturing industries	+0.9	-1.4	-0.3	-1.8	-0.5	+0.7	-0.4	0.9	0.3	() , 4
Durable goods industries	+1.7	-2.1	-0.2	-2.6	-0.8	+0.6	-0.6	1.0	0.6	0.6
Nondurable goods industries	+0.1	-0.8	-0.3	-1.0	-0.2	+0.8	-0.2	0.8	0.4	0.5
Unfilled orders:										
Durable goods industries	-0.2	+0.1	-0.4	-0.8	+0.3	+0.2	0.0	0.2	0.1	0.1

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entoriess	hipments ra	tio	Unfil		-shipments backlog)	ratio ^l
Industry group	Feb. 1982P	Jan. 1982 ^r	Dec. 1981	Nov. 1981	Feb. 1982P	Jan. 1982 ^r	Dec. 1981	Nov. 1981
All manufacturing industries	1.73	1.76	1.72	1.73	3.76	3,86	3.74	3.72
Durable goods industries. Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products.	2.31 1.80 2.58 2.15 2.45 2.31 2.40 2.48	2.37 1.75 2.39 2.25 2.59 2.37 2.59 2.45	2.28 1.82 2.57 2.15 2.44 2.36 2.28 2.30	2.29 1.80 2.38 2.18 2.44 2.36 2.40 2.36	4.56 0.59 2.43 3.29 4.41 4.62 11.76 1.88	4.66 0.60 2.39 3.42 4.77 4.70 12.44	4.51 0.68 2.71 3.36 4.60 4.62 10.61 1.69	4.49 0.67 2.54 3.33 4.57 4.47 11.25 1.76
Nondurable goods industries. Food and kindred products. Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, Rubber and plastics products,	1.15 0.94 3.62 1.59 1.36 1.36 0.64	1.15 0.96 3.67 1.70 1.34 1.36 0.58 1.48	1.14 0.99 3.56 1.73 1.35 1.29 0.56	1.15 1.01 3.44 1.71 1.35 1.35 0.55	0.57 (X) (X) (NA) (NA) (X) (X)	0.62 (X) (X) (NA) (NA) (NA) (X) (X)	0.60 (X) (X) (NA) (NA) (X) (X) (X)	0.62 (X) (X) (NA) (NA) (NA) (X) (X)

⁽NA) Not available. $p_{\text{Preliminary}}$. r_{Revised} . (X) Not applicable.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums. farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

U.S. Department of Commerce BUREAU OF THE CENSUS Washington, D.C. 20233

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Manufacturers' Shipments, Inventories, and Orders

MARCH 1982

M3-1(82)-3

For Wire Transmission 2:30 P.M. E.D.T. Friday April 30, 1982

U.S. Department of Commerce BUREAU OF THE CENSUS

n3-1(82)-3

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in March increased 0.2 percent or \$0.4 billion from February, the Department of Commerce, Bureau of the Census reported today. Excluding orders for defense capital goods, manufacturers' new orders were up \$1.1 billion or 0.7 percent to \$151.5 billion, following a 0.6 percent increase in February.

New orders for manufacturers' durable goods increased in March by \$0.3 billion or 0.4 percent to \$80.1 billion, revised from the earlier estimate of a 1.9 percent increase. Most of the revision was due to more complete reporting in the transportation equipment and fabricated metal products categories.

Within the major industry groups, new orders for electrical machinery and fabricated metal products showed the largest increases in March. For electrical machinery, new orders were up \$1.6 billion or 13.9 percent from February to \$12.9 billion. Most of this increase was attributable to orders for defense communication equipment. New orders for fabricated metals were up \$0.2 billion or 2.3 percent to \$9.8 billion.

New orders for transportation equipment, valued at \$19.1 billion, showed little change from February, as increases in the motor vehicle and parts and aircraft and parts industries were offset by large declines in shipbuilding and railroad equipment. New orders for primary metals fell for the eighth consecutive month, as both the steel and nonferrous metals industries continued downward. The March decline in primary metals was \$0.7 billion or 8.3 percent to \$7.9 billion.

New orders for nondefense capital goods were up for the first time since November. March new orders were estimated at \$22.1 billion, up \$1.0 billion or 4.8 percent from February. New orders for defense capital goods declined \$0.7 billion or 8.5 percent to \$7.9 billion, following increases of between 10 and 30 percent per month since the 1981 low last October of \$3.8 billion.

Shipments of manufactured goods declined in March \$1.1 billion or 0.7 percent to \$158.9 billion. Except for a 2.0 percent increase in February, shipments have been declining since last June when they were valued at \$171.5 billion.

Within the durable goods sector, shipments were down \$0.9 billion or 1.1 percent from February to \$79.4 billion. The largest decline was in the primary metals category where shipments fell by \$1.0 billion or 9.7 percent to \$8.9 billion, the lowest level since March 1978. Shipments by producers of transportation equipment were up in March \$0.4 billion or 2.7 percent to \$16.9 billion. Shipments by the motor vehicle and parts industry increased \$0.4 billion or 3.6 percent to \$10.3 billion, following a 10.5 percent increase in February.

Shipments by nondurable goods manufacturers declined \$0.2 billion or 0.3 percent in March to \$79.5 billion, the seventh decline in the last 8 months. The largest decreases were in petroleum products and food products shipments, each declining \$0.2 billion.

The backlog of orders of manufacturers increased \$0.5 billion or 0.2 percent to \$318.8 billion, following 6 months of declines. The backlog of orders for defense capital goods increased \$3.1 billion or 3.6 percent to \$90.6 billion. Excluding the defense orders backlog, manufacturers' unfilled orders declined \$2.6 billion or 1.1 percent for the month to \$228.3 billion

The book value of manufacturers' inventories declined in March \$1.0 billion or 0.4 percent to \$275.2 billion, the third decline in the last 4 months. Most of the decrease came in the durable goods sector, which was down \$0.6 billion or 0.3 percent to \$183.8 billion. The inventory to shipments ratio for March was 1.73, unchanged from February.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for April is scheduled for release on May 21, 1982, and the full report is scheduled for release on June 2, 1982.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, WARKET CATEGORIES, AND SUPPLEMENTERS SHIPES (WILLIAMS OF FOLIARS)

							(Willions	of dollars										
				Season	Seasonally adjusted	ed						Not	Not seasonally adjusted	y adjusted	-7			
			Monthly	thly			Quarterly					Wonthly	,y				Annual	
SIC	Industry	Mar.	Feb.	Jan.	Dec.	-	11	9-4 9-4 9-4		Last 4 m	months		Last	* months	a year ago			
		1982P	1982 ^F	1982 ^r	1981	198° P	1861	198	Mar. 1982P	Feb. 198.T	Jan.	Dec. 1981	Mar. 1981	Feb., 1981	Jan. 1981	Dec.,	1861	1980
	TOTALS																	
	All manufacturing industries	158,860	159,938	156,861	161,081	475,356	487,145	508,423	167,500	161,305	144,942	155,673	175,250	167,163 1	152,094	187,897	1,947,775 1	1,845,434
	excluding transportation	141,914	143,439	141,729	143,654	426,779	455,717	6×0,1c4	148,703	1+4,528	130,181	139,004	154,728	149,456 1	136,559	140,945 1	1,778,014,1	,654,546
	unfilled orders	84,649	85,230	82,864	85,591	252,743	258,493	758,857	84,377	85,714	75,718	83,594	93,241	87,688	78,356	82,496	1,054,826	740,149
	Durable goods industries	79,402	80,268	77,740	81,146	237,410	245,570	265, 539	855.58	80,693	73,330	78,345	91,521	Bu, Tuh	75, 385	74,478	1,019,879	936,03)
	orders	67,368	68,177	56,328	68,641	201,873	207,622	.17,.85	1,747	625,530	60), 151	67,313	76,160	7~,896	65,132	47,473	852,225	782,636
	Nondurable goods industries	79,458	79,670	79,121	79,935	237,940	241,775	248,484	82,277	83,472	74,612	77,328	83,724	82,416	76,709	77,619	968,776	£06,406
	orders	17,281	17,053	16,536	16,950	50,870	178,08	51,567	17,630	17,144	15,547	16,281	17,181	16,792	15,224	15, 123	202,600,	184,441
	MARKET CATEGORIES														-			
	Home goods and apparel	12,315	12,052	11,179	11,088	35,546	34,852	37,409	12,800	12,741	4,585	1,721	12,544	12,178	10,203	10,116	145,530	329,447
	except automotive	25,935	26,016	24,445	27,045	76, 596	78,444	72,437	27,613	26,193	21,443	28,253	27,412	24,483	797,17	15,159	306,690	277,284
	Construction materials, supplies, and intermediate products	11,515	11,288	11,333	11,392	34.136	34,881	17.353	11.559	10.611	7	10 508	11,125		10 897	11 86.	90000	16369
	Other materials, supplies, and intermediate products.	67.449	69.226	70.442	71. 497	207.117	217 537	3 40	21 457	71 18.	67 271		200	3	130,000	100	00000000	004,041
	SUPPLEMENTARY SPRING												ran's/	0000	1,736	10, 30	971,170	620,3333
	COLUMN TANKS OF THE COLUMN TO						-											
	Household durable goods industries Capital goods industries Nondefense. Defense	5,278 28,307 23,482 4,825	5,138 28,344 23,726 4,618	26,902 22,741 4,161	29,377	15,296 83,553 69,949 13,604	15,243 86,183 72,717 13,466	16,146 85,974 73,112	5,574 30,136 25,177 4,959	5,477 28,690 24,110	24,154 24,356 20,517 3,839	4,583 30,697 25,841 4,856	5,598 30,049 25,774 4,275	5,276 27,367 23,532 3,834	24,184 20,892 3,291	4,626 27,899 24,026 3,873	63, 343 338, 562 288, 611	58,493 308,368 267,210 41,158
	INDUSTRY GROUPS AND INDUSTRIES																	
32	Durable goods industries. Stone, clay, and glass																	
322	Glass containers	3,767	3,825	3,877	3,827	11,469	11,527	12,278	3,830	3,541	3,239	3,400	523		3,476	3,665	5,943	45,518
331	Blast furnaces, steel mills		740,4	5,407	5,144	14,772	16,372	18,268	4,964	5,177	4,728	060.6	6,392	6,108	5,765	10,981	137,970	134,051
34	Fabricated metal products	3,570	3,921	4,196 9,186	3,828	11,687	12,348	14,018	3,899	4,023	3,906	3,568	4,936	4,959	4,535	4,336	54,039 123,117	58,485
35	Machinery, except electrical.	16,949	864 17,125 1.245	882 16,367 1.359	17,417	2,545	2,481	2,441	18,348	817	14,843	17,959	854		720	737	9,991	10,199
352	Farm machinery and equipment. Construction, mining, and	168	1,029	894	1,168	2,814	3,501	3,817	1,079	1,107	978	1,320	1,401	1,358	1,195	1,193	14,748	13,839
354 356	material-handling equipment. Metalworking machinery General industrial machinery.	3,066	3,461	3,151	3,605	9,678 2,881 4,173	10,576 2,783	2,989	3,223	3,544	3,024	3,414	3,321	3,339	3,069	2,917	40,166	35,287
See	See footnotes at end of table.								1000				0000	7	00111	000	* * * * * * * * * * * * * * * * * * * *	102461

1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

							(Willions	Willions of dollars)	(8)									
				Season	Seasonally adjusted	pe						Not		seasonally adjusted1	1			
			Monthly	hly			Quarterly					Monthly	5.				Annual	
SIC	Industry	May	4	i i	Person		TV	Ē		Last 4 mc	months		Last	4 months	a year ago			
		1982P	1982r	1982 ^r	1981	1982P	1981	1981	Mar. 1982P	Feb.	Jan,	Bec. 1-81	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980	1 281	1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																e e-	
51,2	Electrical machinery	11,362	11,300	11,066	11,159	33,728	33,854	35,052	11,885	11,548	10,276	11,012	11,812	11,295	9,98b	10,546	136,583	125,907
	distribution equipment and industrial apparatus		1,769	1,782	1,887	5,363	5,658	5,901	1,916	1,900	1,708	1,783	2,035	1,900,1	1,040	7 × 1	1000	.1,66,1.
5 0	Household appliances		802	816	846	2,630	2,031	2,705	976	812	678	808	1,154	1,140	1,008	800	13,125	9,002
0.0	Communication equipment		2,350	3,261	3,175	086.9	7,018	9,825	2,532	3,400	3,018	3,282	3,243	2,402	2,157	2,862	37,853	33,570
7.1	Transportation equipment	16,946	16,499	15,132	17,427	29,241	51,428	36,731	18,797	16,837	13,841	B, 431	1, 5c.	17,20%	15,535	9,800	219,784	191,387
72,6	Arcraft, missiles, and parts	4,667	4,363	4,320	807'5	13,350	14,747	14,218	526.7	4,473	3,742	5.078	4,325	1,334	3.738	1	12.171	2.113
731	Shipbuilding and military tank vehicles	1,257	1,349	1,012	1,163	3,618	3,474	3, nlr	1,27-	1,260	919	1,301	1,151	1,0,8	940	7,	13, 3, 4	11.00
	products	4,048	4,103	3,920	4,241	12,071	12,628	12,812	4.7.36	4,007	3,532	4.37	4,327	4,027	3.541	4,0,5	5033	4 . 343
31-4	Scientific and engineering Photographic goods	2,434	2,400	2,277	2,544	7,111	7,550	7,508	1,549	2,437	2,150	2,542	1,411	2,32,	2,221	2,3%4	17,314	20. 170
vt	All other durable goods industries	7,743	8,005	7,150	7,837	23, 348	23,720	24,338	8,082	7,721	65+40	7,128		8,1'7	171	1.4.	18,18	13,444
	Nondurable goods industries:	700 60	105.65	21 412	200 100	3,	2	115 24	0,1	22 501	1.2		,	×	3		11	i i
	Weat products		5,308	5,395	5,314	16,016	16,407	17,3:2	5,37.	5,372	5,249	7,365	5,18.	5,.43	,241	004,4	1 17 0	20, 18
8 6	Beverages		3,269	3,078	2,90h	5,447	8,583	8,448	3,097	2,893	1,573	1 200	2,548	2,271	2,400	1,500	35, 51c	33,48,
3-0,9	All other foods		890*6	8,751	8,243	26,403	25,446	26,504	9,669	9,412	7,9.0	8,573	9,870	4,711	0,133	4,773	107,017	1.5,3.3
	Tobacco products		1,193	3,797	3,875	3,510	3,465	3,59.	1,112	3,951	1,155	3,703	1,000	1,038	1,037	1,154	13,6.5	ID, and
	Paper and allied products		6,520	6,500	6,553	19,523	19,575	13,470	6,774	6,622	6,250	5, 113	6,7.0	6240	5,031.	5,85,	37,745	71,600
5-1-3	Pulb, paper, etc	1,603	1,010	1,572	1,580	4,791	2,548 2,845	1,00,0	3, 5.14	1,529	1,481	1,032	3,000	1,048	1,485		19,182	31,43.
7	All other paper products		2,082	2,131	.,154	6,235	6,18.	5,803	2,0143	2,121	2,108	1,420	ANU.	2,110	1, +3 +	1,784	-3,914	21,047
81,6	Industrial chemicals, ex	-	The Ca	670,00	12,134	100 104	40,173	000000000000000000000000000000000000000	Te 1404	15,573	14,00	E4, 8110	1,47.	007,01	14,074	It, b.rd	18., 34.5	107,044
7 2	Cept pigments	4,879	4,993	4,900	5,171	14,778	15,544	10,239	5,435	5,203	4,70)	4,944	0,115	1,004	4,474	5,27×	63,944	144.48
	Petroleum and coal products	13,856	14,083	15,112	15,542	43,048	47,851	+8,313	13,840	14,397	15,116	15,845	10,109	17,091	lo, Ann	15,58	154,705	170,548
	n.e.c.	3,450	3,549	3,673	3,098	13,472	11,285	12,056	3.679	5,678	1,347	3,329	4,017	3,804	3,617	3,530	0,40,04	48,000
m h	All other nondurable goods	12,923	12,640	11,860	11,984	37,427	36,688	37,392	12,865	12,732	10,67+	11,096	11,8%	11,49,11	10,435	1,513	lab,030	133,135
P Pro	Pprelimary. Revised.												-i					

Preliminary.

*** Suprests and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations unfilled orders and incentions, are as of the entroit and are adjusted for trading-day and calendary calendary categories as follows. The supplementary expressing of the separate industries-Household furniture, Kitchen affices and pottery, cathery, nandtools, and hardeare, household datable goods industries-Household lurinture, Kitchen affices and pottery, cathery, nandtools, and hardeare, household datable goods industries-Household lurinture, Kitchen affices and pottery, cathery, nandtools, and hardeare, household datable goods industries-Household lurinture.

neous person; posts.

(Egital joeds universe—Caparable to the previous producers capital coods and the defense products old series categories,

(Egital joeds universe—Caparable to the previous producers—Caparable to the previous producers—Caparable to the caparable to the previous producers—Caparable to the caparable to the cap

TABLE 1. VALUE OF MANTHATTHERS AND PROPER BY INDICENS AND ALTER CALE OF LOSS OF BY STORY SHOWS AND AND ADDRESS OF THE STORY SHOWS AND ADDRESS OF THE SHOWS AND ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF THE STORY SHOWS ADDRESS OF

Calllions of dollars.

				Setted	Seasonally allysted	fud.						104	vea-mally	N aftistell	5.			
			Mon	Wonth ly			Quarterly					Wonthly	11				Vnnual	al
SIC	Industry	Man	Top.	-	-		5			Last 4"	Tontha	-	I o	4 - 10-10-	1 1002 160			
		1982 P	1982 F	198.	1981	l'sez' D	1981	1461	Magnetic Control	Bests.	Late, 1	lac.	N 1 P	hrb.	lan.] 4×	1 1	· ·
	TOTALS																	
	All manufacturing industries	159,405	150,051	156,189	159,469	474,142	12 + 4 H. T	511,118	168,07×	141, 77	, s , s , s , s , s , s , s , s , s , s	154,467	177,301	164,653	157,134	161,799	1,048,04r	1, 484,1
	wanniac ruring industries	140,331	134,998	139,230	143,596	414,25%	+31,117	451,237	14,,,,1	145,1	1 31,4 11	13+,220	154,244	151, -4-4	150,650	144, 119		1, (%), 1,
	Manufacturing industries with unfilled orders	85,194	34, 34,	82,140	K3,474	.51,728	3+2.8+5	271,5+1	8. 2. 3	ř	7	X 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44,944	41,175	43.345	84(1, 8	PMC, 220,	F. T. H. T. St.
	Durable goods industries	80,13h	74,801	77,09.	79.7100	.17,03.	237,524	264,324	86,354	A 1.	1 3,4"	77,825	48,232		80,151	83, 164	, 323, 848.	151,16.
	Orders.	68,102	47,739	to se firms	47,259	201 , u tu	12. 1867	22 1,27 1	, , ,	x .	1, 1, 1,	14, 499	11, 11	25,1+3	67,416	71,658	554,154	,
	Nondurable goods industries	79,264	74,230	74, 144	74,7.15	257, (10)	240,871	247,744	82,]4	÷	2	77,142	H 1,771	82,659	76,474	77,736	4.7.5.0	4,4,531
	Industries with unfilled	17,092	16,633	16,500	16,720	50,234	696,64	51,277	1., 567	11, 1	77.6 2.0	16,395	17,224	17,130	15,441	10,44	. ol, 143	154,371
	orders	62,177	12,617	689,74	586, 50	187,971	1411414	140,517	Pro. 1. 1.		1, 11	nl sout	6, 548	65, t. 24	11,405	47 71 74	27. 16.	292,65
	MARKET CATEGORIES																	
	Home goods and apparel	12,505	24,785	24,44.0	10,984	15,575 88,117	34,124	37,432	11,012	E 2. 2.	**************************************	28,318	24,266	12,402 2×,773	10,834	38,946	1+5,+'+	134,842
	except automotive.	26,902	27,517	27,064	25,647	13,481	75,828 35,466	19, 24	14,175	11,115	17,308	27,533	28,214	25,004	25,517	28,824	156,731	241,454
	and intermediate products	11, +14	11,000	10,778	111,013	5 1, 647	3~, 302	5,117	12, 168	10,377	7	11,1.	11,281	12,244	10, 414	11,875	law,lb)	142, 2
	intermediate products	1,6,484	1.7,564	17,817	/1,502	211,867	212,983	227,204	20,110		7	69,322	14,633	27,000	11,8ng	2,1	, 25 ° 25 ° 3	5:
	SUPPLEMENTARY SERIES ²						-	_				Ī		-				
	Household durable goods indus- tries (Apital Goods industries) Nondefense, Defense,	5,461 29,996 22,065 7,931	5,033 74,714 71,04.5 4,669	4,902 28,267 21,571 6,696	28,552 28,552 .2,718 6,034	15,396 87,477 64,681 23,296	14,519 82,041 67,327 14,714	16,150 89,747 71,952 17,795	5,780 31,127 24,646 7,646	7, 331	1131	29,81) 23,340 6,77)	5,784	5,735 27,853 22,520 5,333	28,140 24,048	30,54)	63,333 344,244 281,618 62,641	56,162 220,57 270,571 56,181
	INDUSTRY GPOUPS AND INDUSTRIES						-					-						
2-5	Durable goods industries. Stone, clay, and glass Primary metals	3,681 7,871 3,683	3,551 8,584 3,987	3,649 9,153 4,419	3,838 9,378 4,949	11,081 25,608 12,089	11,661 29,580 15,180	12,110 35,+90 18,540	5,782 9,106 4,405	1,7,2 1,7,3 1,758	3,12,7	3,409	13,401 7,010	3,444	3,517	3,618	134,211	45,221 134,057 43,21
		3,339 9,772 14,889 843	3,802 4,555 1,162 1,410	3,857 8,757 15,391 1,183	3,698 9,270 17,605 1,730	10,998 28,084 45,442 3,436	11,678 27,814 51,361 4,396	13,656 30,759 51,532	5,820 10,381 16,254 1,050	3,950 4,406 16,440	5,471 6,131 14,408 1,032	3,780 8,711 17,792 1,767	5,20+ 11,205 18,198 1,451	5,1+2 10,447 17,256 1,214	4,369 9,377 16,806 1,646	10,232 17,415 1,160	52,465 121,642 204,348 17,146	58,644 115,493 182,782 13,329
7 7 5	Construction, mining, and material-handling equipment. Metalworking machinery	2,488 640 1,285	1,304	7.74	3,271 467 1,460	8,320 2,105 3,994	9,955	10,520 2,267 4,504	2,666	3,082 758 1,402	2,835	3,323	3,707 1,318 1,531	3,662 910 1,381	3,520 863 1,382	3,358	42,133	35,673 11,028 15,186
See	See footnotes at end of table.																	

Table 2. VALUE OF MANUFACTURENS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES -- Continued

(Millions of dollars)

				Seaso	Seasonally adjusted	ted						No	t seasonal	Not seasonally adjusted 1	d1			
			Mon	Monthly			Quarterly					Monthly	1y				Annual	1
SIC	Industry	Mar	Feb.	Jan	- B	-	V	111		Last - m	months		Last	Last 4 months a year	a year ago			
		1982 p	1982 ^r	1982 ^r	1981	1982P	1981	1981	Mar. 1982	Feb.	Jan.,	Dec. 1981	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980	1981	1980
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery Electrical transmission and	12,908	11,337	11,506	11,650	35,751	33,893	36,462	13,464	12,163	11,419	11,120	12,231	12,047	11,215	10,573	140,846	130,744
363	industrial apparatus	1,690	1,623	1,830	1,917	5,143	5,400	5,937	1,813	1,837	1,797	1,747	2,114	2,039	1,953	1,820	22,892	22,221
365	Radio and TV		972			2,622	2,258	3,083	1,002	827	650	877	851	1,099	728	860	10,884	8,973
366	Communication equipment		3,572			12,105	10,020	11,105	5,067	3,821	3,850	3,443	3,670	3,157	3,500	3,228	41,578	38,248
37	Transportation equipment	19,074	19,053			55,086	47,280	59,939	2,486	2,681	2,421	15,747	20,758	17,758	2,115	17,681	28,201	202,676
372,6	Aircraft, missiles, and	7,714	7,166	5,785	4,657	20,665	12,055	16,839	6,862	6,027	6,092	5,543	5,576	4,105	5,395	5,240	59,381	63,658
3795	tank vehicles	438	1,410	1,469	909	3,317	2,558	3,966	920	1,199	1,323	570	1,239	1,384	1,252	1,708	14,296	15,408
000	products	4,110	4,334	3,893	4,111	12,337	12,722	12,822	4,417	761,4	3,517	4,204	4,376	4,058	3,669	4,306	50,403	46,380
24 39	All other durable goods industries	7,831	8,025	7,787	7,841	23,643	23,513	24,238	8,258	7,798	699*9	6,976	8,830	8,440	7,170	7,544	98,826	93,314

Ppreliminary. "Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or adder—month variations.
The appliances are regroupings of the separate industry categories as follows:
Household durable goods industries—Household furiture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV; opthalmic goods, watthes, and investing

Statis goods industries—Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products—desthiney, except electrical (excluding farm weatherny) and equipment, and an analysis of shipbuilding and relicus destination equipment, an attent and attent parts, and ordname.

The nondefense portions of shipbuilding and relicus despisent, communication equipment, antend in the collection of the contraction equipment, arrest fast and attend the offense work falled by these defense even; this day there defense even; this depth there defense even; this day there defense even; the collective in the collective communication equipment, aircraft parts, and shippuilding.

The data are recognished for those politic manually to the Wu-l'N. Shipments or prevent very literal parts, increase the contraction of prevents and except the contraction of the contr

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3	~	l lungb	145.7	lue;	Est.	2 F	I FI	1 681	T 55.	111	Mar.	Test., 1	Ltn.	146.	Mar. 1 ss.1	1.01	1401	* 5×7
	TOTALS										†		1					
	MI sanutacturing industries	118,844	318,302	319,192	dy, sk	, 8, 61;	- F 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1, 1, tal.	53.4.234	41, 127	121,855	475,157	55,153	312,+31	121,14+3	328,142,	322, 30	31, 141
	ON Tutting transportation	138,400	110,903	273,4 0	Training.	042120	p, 1	100	2000 402	Jo, de	PO1, 191	5 2,10	, , , , , , ,	2 12, 54.5	210,588	2 3H, N. 3	· · · · · · · · · · · · · · · · · · ·	2111,300
	Durable goods industries,	1.75, 2.1	138,445	2 12 cm	311,111	1,100	On other	J	1. 4	101,143	412, 550	211,112	13, 36.	11, 130	115,711	11-, 17	111,764	500,445
	Son brable goods industries,	1,618	Trine a	17,272	10,20	11,154	11,11	13, 10.	Livila	1 1, - 15	7 X 4 +	4 1 1 1 1 1 1	1 , 11.	13,013	11,216	11,175	10, 31	10,000
	MARKET CALEGRALES																	
	Home goods, appared and consumer	4,17н	110.00	2,1.5	· , lts !	1,5471	X.		1 138	4, 185		3,873	1,477	1,796	+,533	4,320	1,415	3,088
	except automotive	194,892	193, 468	1 11,760	1.40,247	1913, 108	10,62	14,82.	186,576	185,272	145,852	145,374	194,146	130,252	192,192	141,486	140,791	186,838
	and interpolate products	16, 45 4	15, 14	11.54.41	10,701	17,471	link 4 . 1	37 , 4 154	115,000	11, 500	2.7.4	15, 45	14,17	16, 480	17,504	17,348	17,335	17,24%
	other caterials, sapplies, and intermediate products	103,421	10%, 485	130,055	100,67.	114,214	111,531	11.0,200	111,277	1111,270	105,001	106,067	107,172	107,403	112,603	112,037	113,659	1.,987
	SUPPLEMENTARY SHELLS?	and the same of														-	10.7	
	Household durable goods indus- tries. (aptral goods industries. Nondeferse.	115,600	224, 152 1.16, 288 87, 469	3, 12's 5, 2, 98. 1 115, 567 8 3, 4 13	711.42 711.41 727.40.1 84.40.08	2.25, 188 1.85, 188 1.86, 128 1.90, 128	201, ma 2011, ma 100, 2864 74, 6976	- 2	2, 45. 110, 623 110, 673 110, 68, 355	7, 85, 11, 13 17, 13	136,481	2,765 226,145 117,485 58,313	2,723 135,778 135,728 85,349	1,484 1,485 1,481 1,485 1,582 1,194 1,484	1,484.1 121,552 146,779 72,773	3,294	2,83+ 220,617 1+4,647	2,707 216,111 146,471
	INDUSTRY GROUPS AND INCLESSED.													-				
225	Stone, clay, and class. France netals. France netals. Marthermore, and class and class. Marthermore, and class endered	1,845	1,955	25,216	20,549	2,124 28,521 17,188	2,242 -8,345 Tr,847	25,288 25,455 14,426	2,450 30,2,8 17,449	2, +26 28, 910 15, %2	1,407	1,954	2,009 25,619 15,134	25,893	2,332 30,661 18,026	2,376 24,818 17,400	2,335	2,294 29,456 16,848
35.25		28,378 09,714 18,191	0,434 28,506 71,776 18,595	7,051 28,318 7,738 18,429	7, 192 28,746 74,113 18,605	200,856 200,856 75,441 18,4413	8,4.5 30,562 7.,578 E8,47.	80,135 72,602 18,241	4,008 30,189 74,196 17,405	29,430	7,119 28,484 70,307 18,722	7,147 28,289 72,402 18,657	28,349 73,387 18,518	7,200 28,545 73,820 18,764	4,084 30,252 75,220 18,263	8,822 30,125 75,434 18,273	8,t39 30,082 75,161 18,+17	8,775 29,969 73,515 18,066
354	Concert Industrial machinery	4, 365 4,054 6,411	9,954	10,541	10,722	5,730	10,989 6,459 7,547	7,035	8,765 7,292 5,177	8,1+1 7,601 0,287	9,506	10,063 -,332 6,551	10,520 +,570 6,591	10,711	4,908 7,013 6,334	9,522 7,108 6,351	7,255	8,748 7,248 6,092

See footnotes at end of table,

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

													-					
					Seasona	Seasonally adjusted	P						Not	seasonally	Not seasonally adjusted			
			Mon	Monthly				Quarterly						Monthly	11.			
SIC	Industry group	Man	Feb.	Jan.	Doc.	111	11	-	ΛI	111		Last 4 months	onths		Las	Last 4 months a year avo	a year aro	
i		1982p	1982 r	1982 ^r	1981	1981	1981	1981	1980	1980	Mar. 1982P	Feb.,	Jan.,	Dec. 1981	Mar. 1981	Feb. 1981	Jan. 1981	Dec.
	INDUSTRY GROUP AND INDUSTRIES																	
38	Durable goods industries	53,583	52,037	52,002	51,563	51,526	50,124	767 27	47,225	45,819	54,074	52,495	51,882	51,741	48,878	28,460	+7,706	46,477
11100	distribution equipment and	0		8 72 I	× 175	267 8		3	7 967	7 905	7.962	2,40	200	0%0	8 37]	x 243	8 1577	7 844
363	Household appliances	322	301	341	339	390		415	411	451	333	318	337	288	430	417	371	350
365	Communication equipment	31,344	7	29,537	29,180	28,823	27,542	26,345	25,427	23,863	31,780	30,245			26,683	26,307	26,125 11,016	25,28,
372,6	fanspirtation equipment.	120,435	118,307	91,899	113,427	118,073	90,506	116,198	113,043	114,513	97,715	119,375	118,206		116,556	91,076	91,325	84,668
3731	Shipbuilding and military tank vehicles,	16,086	16,905	16,843	16,387	17,303	16,953	16,472	16,087	15,421	16,386	16,740	16,801	16,398	16,735	16,647	16,330	16,068
9	Instruments and related	7,424	7,362	7,132	7,160	7,067	7,354	7,012	6,987	6,843	7,465	7,263	7,09k	7,112	7,051	7,001	6,970	6,942
, , , ,	Industries	4,892	4,805	++783	+,64b	4,853	+,955	4,915	4,267	4,050	4,766	1,591	+151+	4,337	677,4	7874	4,220	4,021

* ** Same of the second and are adjusted for trading-may and calendar-sooth variation. Infilled orders are the rotals for the period and are adjusted for tradinglay or calendar-month variations.
The experimental initiative categories as follows for the sparse and control of the sparse and class, and class, and class, and class, and class, and class, and class, and class. Ppreliminary

whereferes products—abstracts, except of ettical (excluding firm institution; and equipment and market solars) (electrical articles) eventually and electronic components), the woodeferse portains of supplied that are equipment, observations and market and articles are equipment, observations and market solar and represents an experiment, and represents a represent a supplied to the experiment of the exper meous personal goods. Comparable to the previous producers' capital goods and the letense products (olf series) categories.

Table . White of Markacher Indian partable for party the cours, "More Called the Carlo Street Called Street Called Called Street Called

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					the se stally	ly of sted							You	seas nally	3 30000 1033			
			Wearhly	ly.			4	Asarterly						Wonthly	11,			
<u>-</u>	Industry	Man	430	Inn	Š	111	1.1		Te	1		Last + mo	mosth.		Last	4 months	a year ago	
		1982P	1962	1,462	1 441 F	1 +81	The state of	1 3	1 480	1-80	Mar. 1982F	Feb. 1482r	Jan. 1	Dec.,	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980
	PUTALS																	
	All canufacturing industries	275,230	276,245	27.412	275,818	274, 616	264,704	26t. 124 3	257,480	236,843	274,598	1,770	276,113	-14,2,1	267,408	266,1153	262.735	256.584
	Manufacturing industries ex-	235,769	235, 115	2 50 , 10.3	251,735	237,142	180,185	2.8,413	221,170	11,344	236,869	23×,178	237,1-3	235,7 10	228,451	227,872	225.085	220,480
	Nanuka turing industries with	190,105	190,00 4	14 , 38	1 40 , 50.5	184,850	183, 16	180,27, 1	174,756 1	173,231	141,233	141,205	184,354	188,045	181,356	179,840	177,250	172,647
	Darable goods industries	183,843	184,470	184,007	1 84,0 4	185,146	178,676	176,224	171.6 1	174,163	185,581	155, 23	184,072	182,515	177,874	176,844	174.255	164,616
	Durable goods with untilled	169,113	153,501	154, 13	1500, 101	16+,02/	162,821	16	1 27,4 51	153, 386	120,225	1, 2501	lns, sin	10,'5 4	161,290	160,058	157,847	153,761
	Nondurable goods industries	91,387	11, 30	11,11×	, 1 HH	41,476	1, 1, 1, 3, 3	(2,14)	86.377	36,67.	41,148	7 7 1 6 7	1. 1	1,042	670'116	84,205	88,480	80,967
	Nondurable goods with unfilled	20,942	21, 16, 1	201, 980,	. M	24,823	20,215	20,047	14. 126	1 *5	21,008	20, 445	20,543	N,48b	20,065	19,782	19,403	18,887
	MARKET CATEGORIES						Ī											
	Home goods and apparel	22,029	22,610	33,085	31,005	33,142	21,410	21,201	20,6t 3 32,20l	31,988	22,020 33,016	33,613	35, 32	33,534	21,210	20,837	33,166	19,845
	Except automotive		76,282	11. '5.	170	75,1+8	73,240	71,400	67,408	64,288	77,247	76,738	75,541	11,157	72,211	71,885	70,667	64,127
	Construction materials, supplies,		To oou		1	1 1 1 1 1 1 1	14,230				1000111	10000	100					500 00
	other materials supplies and	21,701	21,860	22,244	575,575	23,006	22,393	21,602	21,266	20,804	22,328	186,22	187 177	7 , 1 , 2 , 2	22,235	22,045	21,414	70.921
	Intermediate products	110,869	111,150	11.0,415	110,534	111,624	108,478	107.666 1	102,070	102,767	110,886	111,446	110,430	110,531	107,692	106,513	104,884	102,299
	SUPPLEMENTARY SERIES																	
	Household durable goods induser fries Capital goods industrices Nondefense	10,608 85,836 71,325 14,511	10,837 85,921 71,850 14,071	10, 402 H5, 215 71, 410 L5, 805		10,714 85,074 72,055 13,019	10,250 82,376 69,676 12,700	10,236 80,456 68,473 11,984	4,492 78,245 67,224 11,021	77,464 67,021 10,447	10,6-0 86,5+5 72,098 1+,4-7	10,802 86,176 72,145 14,031	11,213	10,544 84,088 70,700 13,388	10.278 81,109 69,181 11,929	10,119 80,457 68,866 11,592	4,901 79,221 67,948 11,272	9,730 77,180 66,381 10,799
	INDUSTRY CROUPS AND INDUSTRIES																	
32 322 33 33	S q	6,882 681 25,415 13,467	642 25,480 13,262	6,781 25,236 15,086	6, 46.7 e5.4 25,1194 13,089	7,037 644 25,087 13,120	6,599 23,334 12,169	6,398 608 23,640 12,722	6,145 593 21,976 11,844	6,016 584 22,022 12,152	7,084 678 25,157 13,010	7,059 n42 25,566 13,235	27,823 011 27,833 13,445	5,818 72, 25,643 13,526	6,588 606 23,391 12,290	6,554 619 23,313 12,433	6,263 584 23,136 12,546	6,020 569 22,390 12,330
333-6, 9 34	Nonferrous and other primary metals	10,615	24,772	10,731	10,619	10,511	9,819	9,563	8,802	8,564	10,764	10,858	10,763	10,576	9,694	9,509	9,258	8,768
341 35 351 352		1,423 42,136 2,522 2,673	1,552 42,517 2,533 2,711	1,513 2,514 2,516 2,516 2,516	1,343	1,578 42,017 2,585 2,712	1,571	1,637 39,618 2,423 2,801	1,744 39,189 2,474 2,774	1,578 39,726 2,457 3,127	1,580 42,621 2,530 2,831	1,569 +2,852 2,551 2,896	1,454 42,418 2,521 2,811	1,143	1,817 40,068 2,432 2,965	1,841 39,895 2,481 2,984	1,765 39,402 2,483 2,833	1,548 38,884 2,465 2,775
353 354 356	Construction, mining, and material-handling equipment. Metalworking machinery General industrial machinery.	10,009 2,463 3,948	9,834	2,520 3,938	9,764 2,647 3,876	9,213	8,789 2,636 3,753	8,469	8,446 2,760 3,561	8,650 2,855 3,627	10,189 2,473 3,999	9,492 2,551 3,975	4,773 2,520 3,974	9,715 2,612 3,845	8,624 2,635 3,649	8,495 2,700 3,677	8,471 2,732 3,648	8,421 2,724 3,534

See footnotes at end of table.

					Seasona	Seasonally adjusted	p						Not	t seasonally	ly adjusted			
			Monthly	y			9	quarterly						Monthly	nly			
	Industry	Mor.	r de r	Tan	Dec	111		Þ	-			Last 4 m	months		Last	t a nonths	1 year age	
_		1982P	1982r	1982r	1981r	1981	1981	1981	1980	1980	Mar. 1982 ^p	Feb. 1982 ^r	Jan. 1982 ^r	Dec.	Mar. 1981	Feb.	Jan. 1981	Dec
	INDUSTRY GROUPS AND INIUSTRIES																	
	Durable goods industries																	
	Electrical machinery	26,080	26,150	26,182	26.325	26,517	25,689	25,057	24,383	24,350	26,236	26,041	5.853	20 10 10 10 10 10 10 10 10 10 10 10 10 10	25,227	24,490	24,457	23, 451
	industrial apparatus		4,484	4,485	4,528	4,744	4,488	4,263	4,163	4.222	4,429	4,481	4 467	4.518	4,277	4,249	4,182	4,15_
	Radio and TV	1,909	1,926	1,820	1,762	2,021	1,934	1,905	1,874	1.843	1,940	1,430	1.901	1.941	1,936	1,892	1,841	1,817
	Communication equipment		9.021	8.845	8.911	8,859	8,886	8,774	8,630	8,589	9,282	4,019	8,858	8 . 55	8,878	2, 901	8,714	8,486
	Transportation equipment:		39,211	39,012	39,175	34.424	4,795	4,560	4, 557	4,450	4,799	57. 15	200	. 08 + 8	4,547	4,603	4,500	4.511
	Motor vehicles and parts		8,555	8.641	8,970	9,316	9,275	9,605	9,694	607'6	8,758	8,737	8 85.	8,541	969.6	36,181	97,650	36.104
	Arreraft, missiles, and parts		26,374	26,013	23,750	25,468	24,820	24,001	22,918	21,835	26,973	26.593	7,854	25,388	24,237	25,457	23,430	466
	tank vehicles	2,239	2,402	2,432	2,462	2,596	2,636	2,612	-,265	2,105	2,210	2,242	-,334	.,337	2,571	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2,288	2,145
	products	9,798	9,707	9,606	9,765	9,738	9,603	9,380	9,281	9,037	9,893	9,712	9,507	9,493	9,471	4,376	9,287	4,620
	Photographic goods	2,361	2,346	2,107	2.375	2,342	2,247	2,259	2,243	2,172	7,006	2,330	28.00	0.827	2.24]	2.544	5.518	6,341
	All other durable goods	13,986	14,120	14,286	14,478	14,880	14,508	14,213	14,046	14,175	14,211	14,383	14,34,	14,.01	14,458	14,46	14.135	13.8 24
	Nondurable goods industries: Food and kindred products		21,082	170,15	21,101	21.826	21.862	22.237	22, 325	22.368	20 610		23.763	1. 734		200	200 00	23 444
	Meat products	2,223	2,150	2,071	3.873	2,067	2,267	2,272	2,271	2,138	2,241		5.07	1 387	2,289	2.310	2,246	2.24
	Fats and oils		1,491	1,719	1,593	1,696	1,648	1,792	2,055	3,770	3,897	1 668	1,882	1,793	1.484	3,914	3, 930	3,574
	All other foods		11,821	11,641	11,865	12,481	12,456	12,476	12,428	12,480	11,212	11 821	12,177	12 383	11,984	12,386	12,796	12.78
	Textile mill products		6,441	6,469	6,683	5,966	3,5/0	3,689	3,507	3,628	4,558	200.0	2 0	267.7	3,828	3,855	3, 746	5.715
	Paper and allied products		8,949	8,738	8,817	8,588	8,332	8,286	7,798	7,818	8,954	8,840	4,582	8,7,1	8,230	8.134	7,944	7 718
	Paperboard containers		2.352	2,321	2,385	3,123	3.018	2,972	2,794	2,894	3,410	3,344	5- 6	3,284	267.2	2,468	2,874	2 785
	All other paper containers		3,219	0,040	3,131	3,128	3,059	3,126	3,032	2,953	3,203	7.50	0.018	3 305	3,067	3,165	3,022	7 7
	Industrial chemicals, except		50, 313	77.0	04.07	20,363	20,218	19,488	18,489	18,478	20,938	206.00	1.875	60, 07	14,710	1 -, 573	14,221	18,748
	Drugs, soap, and toiletries	6,829	6,743	6,166	6,041	6,810	6,961	6,693	5,244	6,200	h,788	0.845	5,098	6,410	0,051	100,00	0,387	6.363
	Rubber and plastics products		9,016	8,710	8,680	9,206	966'6	9,885	8,240	8.805	8,522	8 692	8,825	00 1 7	4,347	8,795	8,536	7 7 9
	0.0	5,552	5,487	5,438	805.5	5,703	5.634	5.538	5,279	5,232	5,689	5 573	1.5.5	5.550	5,673	5,623	5,405	5.31+
	All other nondurable goods	15,450	15,939	15,900	15,713	15.182	14.817	95 9 71	16.353	17, 263	2 0 0 0				000		000	r
						-			74,000	C+7 '++	10,344	17,556	15.334	14,477	T4, 000	14.233	14,086	13.700

Ppreliminary.

Shapemis and measures are the totals for the period and are adjusted for trading-day and calendar-mouth variations.

The supplementations are regrouptions of the separate industry categories, as follows.

The supplementations are regrouptions of the separate industry categories, as follows are regrouptions.

The supplementations of the separate industry categories, as follows are regroupted appliances. The separate industries should be comparable to the period produces capital pools and performs produces capital pools and the reference special products of supplementations and restrict and archite and separate community and restricting and relations and restrict software (excluding farm and the reference shows), electrical accommunity and relations and replaced supplementation of shipping and replaced equipment and relations and replaced in a strength ports, and ordered and ordered and are restricted by large determined by the determinance are in the restriction of the period or per

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6,484 1,484 1,484 1,448 2, 5 47 1, 125 1, 148 1, 14 1515155155 33, 144 1,181 1,181 1,181 1,184 1,18 E (1881964) (1977) 5,5,5,5 5,7,5,5 5,7,5,5 7,7,5,5 10,7, 7, 5, 80 0 7, 94 80 0 7, 94 80 0 7, 94 80 0 7, 94 80 0 7, 94 80 0 8, 313 - 1 , iilijata liiti 24,154 5,203 6,203 7,103 7,103 7,103 8,873 6,688 5,203 6,688 5,115 7,115 11,206 11,301 11 33,778 43,562, 4,254, 4,256, 11,998 11,998 13,994, 5,673 5,673 6,6116 6,323 7,848 8,323 7,848 8,323 8, 1 7110 64 7 5 5 5 5 7 81,848 42,155 5,396 6,861 117,619 12,648 2,544 2,544 39,693 99,113 1,656 2,139 23,983 83,136 3,152 3,153 5,718 5,002 5,002 12,570 5,080 5,080 5,491 3,485 2,103 23,908 14. 2, 1987 2, 198 77, 104 5, 104 10, 104 10, 104 10, 104 11, 104 11, 104 11, 104 11, 105 11, 44, 39.0 31, 15.1 31, 15.1 4, 954 4, 117 4, 117 4, 117 4, 117 5, 118 6, 118 5, Je. 2 3, 113 3, 113 5, 113 5, 113 5, 113 5, 153 6, 150 6, 113 6, 150 6, 1

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

			Pe	rcent chang	es				Revisions ²	
Item and industry group	Mo	onth-to-mon	th	Avera	ge monthly	rates of ch	ange ¹	Year	Average	monthly
Trem and Industry group	Feb Mar. 1982	Jan Feb. 1982	Dec. 1981- Jan. 1982	First quarter 1982	Fourth quarter 1981	Third quarter 1981	Apr. 1981 through Mar. 1982	ago Mar. 1981	Mar. 1981 through Feb. 1982	Mar. 1977- 1981
Shipments:										
All manufacturing industries	-0.7	+2.0	-2.6	-0.5	+1.5	+0.6	-0.4	0.1	0.2	0.2
Durable goods industries	-1.1	+3.3	-4.2	-0.7	+2.0	+1.0	-0.6	0.4	0.4	0.2
Nondurable goods industries	-0.3	+0.7	-1.0	-0.2	+1.0	+0.1	-0.1	0.3	0.3	0.3
Inventories:										
All manufacturing industries	-0.4	+0.4	-0.3	-0.1	-0.1	-0.8	+0.3	0.1	0.1	0.1
New orders:										
All manufacturing industries	+0.2	+1.8	-2.1	0.0	+1.8	+0.5	-0.4	0.1	0.3	0.4
Durable goods industries	+0.4	+3.5	-3.3	+0.2	+2.6	+0.8	-0.7	0.5	0.7	0.7
Nondurable goods industries	0.0	+0.2	-0.8	-0.2	+1.0	+0.2	-0.1	0.2	0.3	0.2
Unfilled orders:										
Durable goods industries	+0.2	-0.2	-0.2	0.0	+0.8	+0.3	-0.1	0.0	0.1	0.2

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entoriess	hipments ra	tio	Unfil:		-shipments r	atio1
	Mar 1982 ^p	Feb 1982 ^r	Jan 1982	Dec 1981	Mar 1982 ^p	Feb 1982	Jan 1982	Dec 1981
All manufacturing industries	1.73	1.73	1.75	1.71	3.77	3.73	3.85	3 74
Durable goods industries. Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical Electrical machinery. Transportation equipment. Instruments and related products.	2.32 1.83 2.86 2.07 2.49 2.30 2.33 2.42	2.30 1.79 2.59 2.14 2.48 2.31 2.38 2.37	2 37 1 75 2 39 2 25 2 59 2 37 2 58 2 45	2 28 1 82 2 57 2 15 2 44 2 36 2.25 2 30	4.59 0.56 2.58 3.19 4.34 4.72 11.64 1.83	4.52 0.59 2.43 3.25 4.46 4.61 11.67 1.79	4 66 0 60 2 39 3.41 4 77 4.70 12.51 1.82	4 51 0 68 2 71 3 36 4 60 4.62 10.61 1.69
Nondurable goods industries Food and kindred products Tobacco products. Textile mill products. Paper and allied products Chemicals and allied products Petroleum and coal products Rubber and plastics products, n.e.c.	1.15 0.94 3.86 1.57 1.39 1.36 0.65	1.15 0.94 3.62 1.60 1.37 1.35 0.64	1 15 0 96 3 67 1.70 1 34 1.36 0.58 1.48	1.14 0.99 3.56 1.73 1.35 1.29 0.56 1.49	0.56 (X) (X) (NA) (NA) (X) (X) (X)	0.58 (X) (X) (NA) (NA) (X) (X) (X)	0.62 (X) (X) (NA) (NA) (X) (X)	0.60 (X) (X) (NA) (NA) (X) ((X)

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

¹ Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

^{*}Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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CURRENT INDUSTRIAL REPORTS

7 3 - 1 (82) - 4

U.S. Department of Commerce BUREAU OF THE CENSUS

Manufacturers' Shipments, Inventories, and Orders

APRIL 1982

M3-1(82) 4
For Wire Transmission 3:00P.M. E.D.T. Wednesday, June 2, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in April declined \$3.6 billion or 2.3 percent to \$155.3 billion the Department of Commerce, Bureau of the Census reported today. New orders had been generally declining since last July, but in February showed a 1.3 percent increase and in March a 0.3 percent increase. Shipments of manufactured goods decreased \$0.8 billion or 0.5 percent in April to \$157.4 billion. Shipments have declined every month since last June except for a 1.8 percent increase in February. The book value of manufacturers' inventories decreased \$0.8 billion or 0.3 percent to \$274.2 billion, the fourth decline in the last 5 months.

The decline in manufacturers' orders in April was concentrated in the capital goods sector. Orders for defense capital goods were down \$1.9 billion or 24 percent to \$6.0 billion. Despite this decrease and the March decline of 8.6 percent, defense orders still remained at a relatively high level, over 50 percent above April a year ago. New orders for nondefense capital goods were down \$1.1 billion or 5.1 percent to \$20.9 billion, following a 7.9 percent increase in March.

Within the major industry groups, most of the durable goods categories showed new order declines in April. Orders for transportation equipment were down \$1.4 billion or 7.0 percent to \$18.1 billion. New orders for the aircraft and parts industry dropped \$3.0 billion or 39 percent to \$4.7 billion, more than offsetting an increase in the motor vehicle industry of \$1.2 billion. New orders for electrical machinery decreased \$0.4 billion or 3.3 percent to \$12.4 billion while nonelectrical machinery orders were flat. New orders for primary metals registered the first monthly increase since last July. April orders were valued at \$8.1 billion, up \$0.3 billion or 4.4 percent from March. Virtually all of the increase was attributed to the nonferrous metal producers.

Most of the declines in manufacturers shipments were in the nondurable goods industries where shipments declined \$0.7 billion or 0.9 percent to \$78.3 billion. An increase in petroleum products shipments of \$0.7 billion or 5.3 percent to \$14.5 billion was more than offset by declines in most of the

other nondurable goods industries. Excluding the petroleum increase, nondurable goods shipments were down 2.1 percent.

Shipments of manufacturers' durable goods showed a small decline in April of \$0.1 billion or 0.2 percent to \$79.1 billion. A decline of \$0.9 billion or 5.6 percent in shipments by non-electrical machinery producers was offset by a \$0.9 billion or 5.2 percent increase in transportation equipment industry. The motor vehicle industry showed a \$1.5 billion or 14 percent increase over March, the third consecutive monthly increase following significant declines between July 81 and January 1982.

The value of the orders backlog of manufacturers decreased \$2.2 billion or 0.7 percent in April to \$317.0 billion. This is the sixth decline in the last 7 months and the largest since the \$5.1 billion drop in October. Within the specific categories the orders backlog for fabricated metal products declined \$1.1 billion or 3.9 percent; for nonelectrical machinery, \$1.1 billion or 1.6 percent; and for steel, \$0.6 billion or 4.8 percent.

Declines in the book value of manufacturers' inventories were widespread. Within the durable goods sector inventory increases in the aircraft and parts industry of \$0.7 billion or 2.7 percent, in nonelectrical machinery of \$0.4 billion or 0.9 percent, and in instruments and related products of \$0.2 billion or 2.6 percent, offset declines in all of the other categories. Inventories in the nondurable goods sector declined \$0.8 billion or 0.8 percent to \$90.7 billion, with the largest decrease coming in the petroleum products industry, down \$0.5 billion or 5.4 percent from March.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are aslo considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for May is scheduled for release on June 22, 1982, and full report is scheduled for release on June 30, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALE D. GANDAL, DERN' MIPHENTS OF INTERPT SEO PS, WHAM CURRENTS, ND SUPERMINES SEPTE

							rvillions	of follors										
				Season	seasonally adjusted	ed						Yot		seasonally adjusted!	14.5			
			Monthly	nly			January or Ix	+				30 m lv	1 4		ı		Annual	
SIC	ir fustrv				1	-		. :		La co	30.11 ×	1	Last	and and the	a vert ago			
		\pril 1 +82P	March 1982*	Pr b.	Jan.) [r ·]		April 1	1 m 1	1	J.m.	Maril 1000	March 1 ++1	- ÷	1 4	¥	
	10111.5							-			1			2				
	All manufacturing unlustries	Ţ	1 5,141	114 4, 4	1 , ,	·	x 7	:	5	11.	4.				1	7	2	
	Manufacturing industries excluding transportation	1000	1-1 1-1	142, 40	1.0	9			1		1 17.	14. 70	7	r	14.5		4, 5, 5, 2, 4	¥ .
	Manufacturing industries with unfilled orders	× ×	ž.	×	A. A. II		: .		, * *	1	¥ ,	7	**	·:	X X X X X X X X X X X X X X X X X X X	2	4	
	Durable goods industries	7 . 155	14,7,14	7	1 . 1	, , , , , , , , , , , , , , , , , , ,	1			· · · · · · · · · · · · · · · · · · ·	1.	7 Te 0	ć X	11	, T		dr. ses	;
	orders,	* * * * * * * * * * * * * * * * * * *	6,13	64 - 44	nt. the	¥			1	7	, , , , , , , , , , , , , , , , , , ,	- · ·	-1	<u>ś</u>	\$ Y	, , ;	7,	! "
	Nondurable goods industries	T. X.	18, 188	11 17 4 ,	77 .	*		x, x,	;	×	í r	i c			A. 1.8			\$ -\$
	orders] h with	· .	3	9		-		; ;	1	1	, 1	7	Ī.	-	t	7 5 6	ę,
	MARKET CATEGORIES																	
	Home goods and apparel.		11 608	1:1	11.1.	= "	; ; ;	1 1	= 1	 	7:	ž ,*	77	: 2	7.7	- +	16.	41.
	Equipment and defense products,					, x	?	7		Ť		2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4						74 1 ,
	Automotive equipment.	11,175	11 284	11.5	1	7		÷ .	7		1	, ,	4 2 1		27, 23	11 ++0	587	1. 1.
	construction saterials, supplies, and intermediate products	11 787	11 381	1. , кн	11 + 11		***					7	77	1. 11	1. 10		+3,251	- £ 7
	interrediate products	14. 381	f. ' ', ',	64,3,16	ť,	* * * * * * * * * * * * * * * * * * * *	. n.	*.		111111	1 .8 .	7	×	· · · · · · · · · · · · · · · · · · ·	0, 11	£	77.	*. Tol
	SUPPLEMENTARY SERIES?																	
	Household durable goots inflas- tries Capital goots industries Nonlefense Defense	26,541 21,463 21,463	5.85.85 8.55.85 8.55.85	1.1.1.1.1 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	28.04.4 1.1.1.4	2	111-6	1 . 3 . 1 . 1 . 1 . 1 . 1 . 1	3541	+ 1 <u>1 </u>	1,128	1 = 4 2		• 3:10	1,845	1.377	1.7.5.81	11.42
	INDUSTRY GROUPS AND INDUSTRIES																	
3.2	Durable goods industries Stone, clay, and glass products.	£ .	1,831	5.8.7	E # 3				ŕ	· ·	Try,	*	7 -	1	Q	£ 2		
33	Primary metals	900 %	8,87 2,87 2,52 2,53	7 7	25.01	797.7	, É ()		7 7		E 146	2 2 2	17,411	J. 15.	6 138	11.555	7. 2. 2.	200 2
333-9	Nonferrous and other primary metals	167.3	1.581	13-5	41.1	11,6 48			•	1 112	1 95	3 +035	7 7	4.435	7 (7	+ 505	15.41	
34	Fabricated metal products	4,536	4, 78.1	4,754	4,186	.8.533	8,421		· ·	lo . '-	7077	8.3.8		11.0.8		69.	, a	
351	Machinery, except electrical Engines and turbines	15,212	16,424	15,615 1,745 1 0,9	88. 16,103 1,439	4 1 1 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1,18	51 064	15,721	1.8%	17,429	14,843	17,194	18 412 1 461 1 461	1 58.1	15 167	5 40%	
353	Construction, mining, and material-handling equipment,	2,426	3,119	1,461	1,151	4, 14	10 1.6		3.086	1 2 78	† † † † † † † † † † † † † † † † † † †	-54	3,400	3 3.1	1,534		12 45.	13 178
354	Metalworking machinery	1 229	1. 582	1 402	1,007	2,855	2,783	186.7	1.762	1,052	1,441	1,258	1,429	1 543	1.374	1 130	5,408	1 0 1 1
See	See footnotes at end of table.																	

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES.-CONTINUED

							(Willions	(Willions of dollars)	(8)									
				Seasonally	nally adjusted	ed						Not	seasonally	adjusted1				
			Wonthly	hly			Quarterly					Monthly	,				Annual	
SIC	Industry	d nor 1	Moseph	H ₀ C	Lan	-	ni.	111		Last 4 mc	months		Last	4 months a	year ago			
		1982P	1982r	1982	1982	1982 ^F	1981	1981	April 1982P	March 1982	Feb. 1982	Jan. 1982	April 1981	March 1981	Feb. 1981	Jan. 1981	1982	19×1
	INDESTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
361,2	Electrical machinery	11,517	11,422	11,300	11,066	33,788	33,854	35,002	11,475	11.955	11,548	10,270	11,301	11,812	11,293	9,986	45.254	44,389
363	Industrial apparatus		1,832	1,769	1,782	5,283	3,031	5,901	1,787	1,936	1,900	1,708	1,900	2,035	1,903	1,540	3 404	2,477
365	Radio and TV		931	3 400	3 251	2,552	2,480	2,755	3.601	3 583	812	678	850	903	616	721	4, 127	105.4
367	Electronic components	2,377	2,345	2,350	2,335	7,030	7,018	7,124	18,809	2,432	2,421	2,239	2,355	2,412	2,402 1	2.15	13.00	7, 124
371	Motor vehicles and parts		10,341.	9,958	9,013	29,312	30,722	36,731	12,503	11,829	10,255	8,534	12,004	12,912	11,236	9,980	45 121	46,790
37.11	Darks Anna Change and an income	4,351	4,683	4,303	4,320	13,366	14,747	14,218	4, 194	4,945	4,473	3,742	4,841	5,325	4,354	3,738	1. 154	13, 503
3795	Thething and marking	1,176	1,319	1,349	1,012	1 680	5,474	3,610	1,179	1,336	1,200	919	1,178	1,1,1	1,058	066	4,44	4, 187
381-4	products	4,003	4,142	4,103	3,920	12,165	12,628	12,812	3, 451	4,335	4,007	3,532	3,979 2,35h	4,327	4,027	3,641	15 825	9,431
386	Photographic goods	1,422	1,334	1,448	1,413	4 195	4,282	4,442	1.508	1,396	1,348	1,180	1,324	1,411	1,415	1,185	5.242	051.
39	All other durable goods industries	7,794	7,701	8,005	7,650	23,356	23,720	24,338	7 844	8,034	7,721	1,493	8,742	8,534	8,177	1,471	30 085	12,442
20	Nondurable goods industries Food and kindred products		22,028	22,421	21,914	66, 363	94,896	57,512	21 581	22.927	22,591	20,3%1	22,312	22,840	22,348	20,911	87,460	84,418
208	Beverages	3 308	3,133	3,269	3,078	9,480	16,407	17,322	3,335	3,130	5,372	5,249	5,213	5,182 2,848	5,243	5,241	21,295	20, N77 10,892
203-6,9	Fats and oils		1,670	1,614	1,632	4, 41h 25, 583	5,185	5,375	7 803	9,535	1,714	1,714	1,612	1,444	9.711	1,771	3,00.8	37 153
23	Tobacco products		1,138	1,190	1,182	3,510	3,465	3,592	1,209	1 112	1,121	1,135	1,101	1,050	1,038	1,037	223	4,2,3
26	Paper and allied products		067.9	6,520	6,500	19,510	19,575	19,475	9,438	6.761	0,022	5,250	587	6,7,99	6,130	5,035	26,071	26,097
265	Paperboard containers		1 605	1,610	1,572	0,440	X,048 4,845	4,494	1,577	1.6.8	2,872	1,481	1,579	3,00h.	2,84X 1,014	2,133	11 308	11,411
264	All other paper products		15,206	2,082	2,131	65.23	0,182	5,803	15,765	2 090	2,121	2,1.8	2, 18	2,098	2,115	1,939	8 348	8,170
281,6	Industrial chemicals, ex-		, R13	000					5 013	, 4b. 5						1		
283,4	Drugs, soap, and tolletries	4,222	170	4,072	3,825	12 367	11,857	11,382	4 1.5	S-+	5,203	5,709	3,441	4,031	3, 4, 2	4, 474 3, 781	10 . 41 10 tax	22, 603
30	Rubber and plastics products,	14.030	13,009	14,080	15,112	43,001	47,851	48,313	14,042	77.	14,547	15,156	15,703	16,109	17,191	10,865	5, 42,	0 ,787
23	n.e.c.	3,522	3.396	3,549	3,073	10 618	11,285	12,356	3.680	3.622	3,678	3,387	4,135	4,017	3,800 9	3, 117	14 367	1.,553
31	All other nondurable goods industries	11.871	12,770	12,540	11,864	37,274	34,586	37,392	11,585	12 '0'	12,702	10,074	11,708	11.45.1	11,942	10,495	2000	20,104
PPre	Pprellminary. Revised.																	

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-worth variations, unfilled sphers and inventories are in the period and are not advanced for trading-day and calendar-worth variations of the separate industry categories as follows.

**The supplementary refers or regroupings of the separate industry categories as follows
**Resupplementary refers are proposed furniture, kitchen articles and pottery, cultery, handtools, and hardware, nonsehold durable goods industries—Household furniture, kitchen articles and pottery, cultery, cultery, handtools, and hardware, radio and TV, ophthable goods, watches, and take and native like.

towns personal goods.

Copital goods and the previous producers' capital goods and the defense products (old series) categories.

Capital goods infectives—"Copital goods and the defense products and each sea shows, and other seasons are all the seasons and seasons and seasons are all the seasons of shippority, except electrical seasons of shippority, except electrical seasons of shippority communication equipment, aircraft and aircraft parts, and options of shippority and shippority communication equipment, aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft parts, and shippority of the seasons of the seasons of the seasons are opported by the seasons of the seasons are opported by the seasons of the

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				34 34 3	seas modify as justed	7						No.	.a. mally	B witnesser!	11.2			
			Mon	South ly			Miterly		1	1		175.436.	*				101	int and
SIC	Industry						-			1 111	7 22 64	⊢ ;	1100	1	a send 6.1			
		d de la la la la la la la la la la la la la	1982		198.	- 'A+'-	115	=======================================	d ***!	Mar		15.				12.7	ţ.	· · · · · · · · · · · · · · · · · · ·
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	All manafacturing industries	7.00	1. 14, 14.7	17.8,417	1.4, 50.	4 3,6 65	545,854	11,110	~ .		1 1	1		177, 111	0 274 27	117,134	1 3 4 , 4 5	1.
	excluding transportation,	13.,18	150,4.7	15%,41.	1000	: ::	.1,11.	:		;		:	-	:	7	•	,	
	antillar or fer.	1, 19	414.	45, "."	*	* 4			7	*, **	* * *	;	1		E 400 P	***	•	y
	Durable goods tudus (1900)	1, 154	161 161	1, 17		[m 45 .		* 1,1 *	. 3.	ř.	· .	34.36	+	4 5	31.143	* · · · · · · · · · · · · · · · · · · ·	1.00,01	7 - 4
	Orders,	P(C, 63	1,1,474	4.,1.,	* * * * * * * * * * * * * * * * * * * *	3	1114, 77,	1		1	10,000	. 6,18			73,345	7	THE STATE OF	*
	Nondurable goods industries	*	Er'r.	· ·	2	, .	r r	7				,1		1.1	· · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	orders,	11,715		181,155	11, 1, 1, 1	1	4 14 14 1		5 4 4 1 1 7		Д А		17,1 ×	1	1., 131	1		25.
	orders,	1112,113	ž.	6. , 6 17	20.	150, 8	140,701		٠1,٠			· ,		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 A 4 . 4			
	MARKET CATEGORIES																	
	Home goods and apparel,	H, 559	F	11,510	11.11	2 2	54,1.5	4 5	-: 1	*	7 %	1 2 4	.133	1,,	1. , 1.	1	11.	
	Equipment and defense products,	1 1 2 1 1	. 10'	15, 133		* 11.	1.	11. 11.	1		=7		1	T.	1	-1.	*	**!
	Automotive equipment	17,000	11,83	1.6, 4.1	1.1	33,44.1	7. · · · · · · · · · · · · · · · · · · ·	*. , her				ž :	1.,	5 54	15,.43	×	4 7	
	and intermediate products	10, 254	111, 1111	11, 11,	-		54,5%	57,111	, , , , , , , , , , , , , , , , , , ,	٠. ٠	-	, 13	13, 34"	,	,	·,		7
	intermediate products	44 , 34	b , 7 m	1 , 11 %.	-[14.74		71., 383	.7, 2014		1,	7	T	71. 1. 1.	f 1'8,	**	7,1	1. 1	1.
	SUPPLEMENTARY SERIES?																	
	Household surable goods industries. Tries. Valual geofs infustries. Waltefesse.	\$ * F B	H. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	135,0 135,0 190,8		3000	14, 114 87, 113 14, 714	10,13:1	7757	1,	47.5	¥ 5 = 3 2 / 2 ± 2	952 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2 1 5 C	7173	2	2712	
	INDUSTRY GPOUPS AND INDUSTRIES													. ~ -				
22.5	Durn St Pr	5, 649 8, 106 2, 645	3,621	3, 7 -1 8, 384 3, 485	2,123 1,133 1,119	E 8 &	11,661	12,1110 35,480 18,.40	4 x x	1.3.4.	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	, 1 , , , , , , , , , , , , , , , , , ,	12,500	13,401	13,044	3,4,4	30,101	6. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.
351	e K	3,635 8,4 l	5, 365 9,778 14,410 4937	1,401. 7,17 14,17 1,410		10%9	11,678 27,814 51,061 4,390	13,616 51,758 51,535 4,543	3,7th	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	17,826	11, 704 11, 105 18,198 1,451	17,556	1,364	25.77	14, 55 41, 05 70, 04, 5, 736
53	Construction, mining, and material-handling equipment. Wetalkovking machinery. General industrial machinery.	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,041	,863 [64]	2,469	5, 175	9,455	13,577	1, 5	2,7.1	E 2	, , , , , , , , , , , , , , , , , , ,	3,494	1,707 1,318 1,531	3,662 910 1,381	3,550	10,836	14,888 5,734 5,913
See	See footnotes at end of tuble.																	

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATHORIES, AND SUPPLEMENTARY SPRIES. CORPERANCE

							(MILLION:	(Millions of dollars)	8.1									
				Seasor	Seasonally adjusted	ted						No	Not seasonally adjusted ¹	ly adjusted	1,1			
			Monthly	hly			Quarterly					Monthly	1.9				Annual	
SIC	Industry		Mon	400	Ton	-	2	E		Tast + *	wonths		Last	4 months a year	t vear ago			
		d. 1982	1982r	1982	1985	1985r	1981	1981	Apr.p	Mar. 1982	Feb. 1982	Jan. 1982	Apr. 1981	Mar. 1981	Feb. 1981	Jun. 1981	1942	1941
	INDUSTRY GROUPS AND INDUSTRIES-																	
	Durable goods industries																	
361,2	Electrical machinery Electrical transmission and distribution couldment and	12,448	12,872	11,337	11,506	35,715	33,893	36,462	12,276	13,435	12,103	11,419	11,825	1,731	12,047	11,.15	. 867.46.	47,315
20.3		1,492	1,760	1,623	1,830	5,213	5,400	5,937	1,662	1,882	1,837	1,797	1,930	2,114	2,039	1,953	3.943	5,032
69	Radio and TV	762			830	2,514	2,258	3,083	633	868	827	650	762	851	1,099	728	3, 308	3, 1, 39
300	Communication equipment	4,727			3,619	12,111	10,020	11,105	4,453	5,076	3,821	3,850	3,395	3,47)	3,157	3,500	17,200	13,7.2
12	Transportation equipment	18,084			16,959	55,452	47,280	59,911	19,555	30,566	18,007	10,727	20,105,	20,758	17,758	17,479	74,855	76,099
372,0	Aircraft, missiles, and	4,728	7,768	7,160	5,785	.0,719	12,055	16,839	56.38	6,916	6,027	6,092	4,281	5,574	4,195	5,395	24,330	19,317
3731	Shipbuilding and military tank vehicles	1,313		1,410	1,469	5,532	2,558	3,966	1,523	1,133	1,199	1,323	2,185	1,239	1,384	1,252	5,178	h, 60
80	Instruments and related products	4,073	4,181	4,334	3,893	12,438	12,720	12,822	2,053	567.7	4,192	3,517	3,891	4,376	4,058	3,669	16,.57	15,493
25 25 39	All other durable goods	7,651	7,881	8,075	7,787	23,693	23,513	24,238	7,921	8,298	7,798	699'9	9,111	8,830	8,440	7,17,	30,684	33,550
															-			

"Revised. Ppreliminary.

's shapened and the totals for the period and are adjusted for training-day and calendar-month variations unfilled orders and inventoring at the ent of the period and are not adjusted for

traing-day or calendar-worth variations. The separate industry categories as follows. The supplementary series are series are series are series are series are series are series are series. The separate poles are series are series are series. The series density series are series. neous personal goods. (apparable to the previous producers' capital goods and the defense products foll series) (ategories,

Monthers products—assubatively, except electrical (excitative farm sentiment and equipment and evaluation that continuent consistent in the control of simplicity and repairing and railroad equipment, occurrences in the following influence of simplicity and repairing and repairing and repairing and repairing and repairing and repairing and repairing and repairing and repairing and repairing and repairing and repairing and reference occurrences in the following influence, commented and an extendibute, the data are explained in the following influence, commented and an explaination of the following influence of control of the following influence of comments and alternative for the following influence of control of the following influence of control of the following influence of the following infl

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			Wanted.	.101.				yart. Flt						Wonthly	11y			
2115	Industry											1.45 4 4	Tonths.		Last	4 months	a vear ago	
		1982p	Mar. 1982	1482	1982		1481	121	1961	· • • • • • • • • • • • • • • • • • • •	Apr.	Mar. 1982	leb.	1,48.2	Apr.	Mar.	Fet.	lar!
	TOTALS																_	
	All manufacturing industries	316,988	319,174	518,553	ы, 51н	114,865	528,613	325,418	573,632	314,734	11, 2,024	422,224	121,753	321,753 3	328,54	320, 001	(25,142	
	Manufacturing industries excluding transportation	196,248	198,528	299,246	2.15, 150	245, +58	210,500	213,403	245 , met 5	484,445	148,471	201,232	202,378	11,54" 2	212,060	210,3%	208,873	200, 402
	Durable goods industries	107,190	109,485	3-38,746	309,293	309,611	(92,46)	114, 77	312,545	, 3H, M15	110,713	312,354	311,887	311, *** 3	317,342	315,727	314,017	511, 201
	Nondurable goods industries	861.6	VAR BRW	1,8637	19,238	13,254	11,155	11,441	M, o. M	1 1, 41 4	KH7 "F	4,880	G G G T	13,339	11,505	11,216	11,175	13,451
	MARKET CATELORITES																_	
	Home goods, apparel and consumer staples.	4,128	4,116	6, 100	2 1 4 ¢	4,165	*, 921	\$ 90° .	a filtra	888	4,160	4,918	. 873	1,877	4,857	4,533	4,320	3,915
	Equipment and defense products, except automotive	194,920	195,084	144,219	193,088.	190,237	193,138	147,426	141,524	184,876	196,318	146,379 1	195,840	144,526 1	143,134	192,392	141,484	140,741
	(onstruction materials, supplies, and intermediate products	15,488	16,277	15,949	16,247	16,741	17,371	264,1	17,41	1,567	15,646	16,355	14,945	10,178	17,437	17,504	17,348	17,335
	Other materials, supplies, and intermediate products	102,452	103,697	104,385	106, 150	108,674	1113,213	112,511	113,206	111,277	134,537	105,764	196,087	107,172 1	113,420	112,003	112,037	110,654
	SUPPLEMENTARY SPRIES!															_		
	Household durable goods indus- fries (prival goods industries Nondefense.	2,884 226,980 135,065 91,915	2,475 226,555 136,062 90,493	2,923 220,603 137,139 87,460	223, 10n 11st, 80n 11st, 80t 83,413	3,407 221,617 140,747 80,880	3,735 225,758 144,126 79,632	3,732 221,984 147,288 74,644	3,626	2,454 214,028 147,673 181,355	2.28,723 145,448 92,785	2,851 227,886 136,942 90,454	225,765 225,720 138,460 88,360	2,7,3	3,768	3,444	3,294 221,103 148,695 22,468	220,617
	INDUSTRY CROUPS AND INFOSTRETS																	
222	Dura St Pr	1,704 21,934 12,620	1,823 22,838 13,253	1,955 23,947 13,979	25,210 14,989	2,257 26,549 15,477	2,124 28,521 17,168	2,292 28,592 16,897	2,288 28,455 16,426	2,463	1,801 23,154 13,516	1,859 24,176 14,115	1,954 25,023 14,719	2,034	2,325 30,730 18,380	2,332 30,661 18,026	2,376 29,518 17,430	2,335
34 35 351	Anniertous and otner primary metal products	6,562 27,185 68,902 18,065	6,718 28,302 70,005 18,353	6,434 28,306 72,027 18,595	7,053 28,318 74,069 18,429	7,392 28,746 74,713 18,605	8,062 29,856 75,440 18,413	80,362 75,578 18,474	8,557 30,134 74,602 18,241	4,008 40,184 74,396 17,405	t,831 27,362 69,413 16,000	7,134 28,406 70,635 18,383	7,197 28,289 72,877 18,657	7,264 28,344 73,767 18,518	8,422 30,154 75,853 18,340	9,089 30,252 75,220 18,263	8,822 30,125 75,434 18,273	8,639 35,082 75,161 18,417
353 354 356	Construction, mining, and material-handling equipment. Netalworking machinerv	8,444 3,657 6,197	9,365 1,958 6,378	9,944 4,336 6,493	16,541	10,722	11,343 5,736 6,669	10,989 6,459 6,547	9,760 7,035 6,304	8,765 7,242 6,177	8,064 3,660 6,241	9,506 3,946 6,+10	10,063 4,332 6,551	10,520 4,573 6,591	10,507 6,872 6,531	4,908 7,013 6,339	9,522 7,108 6,351	9,199 7,255 6,344

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

	Not seasonally adjusted ¹	Nonthly	TV Last 4 months Last 4 months a year aro	1980 Apr., Mar. Feb. Jan. Apr., Mar. Feb. Jan. 1982 1981 1981 1981 1981 1981		47,225 54,776 53,978 52,495 51,882 49,403 48,076 457,8 48,406	7,886 8,011 8,065 8,128 8,400 8,371 440 430 298 399 404 390 349 447	25,427 25,527 11,546 10,245 29,825 26,923 26,668 26,667 26,707 55,124 11,465 11,526 11,546 11,547 12	88,371 98,655 97,753 95,783 94,229 90,716 41,327 91,076 41,325	16,087 16,880 16,537 16,740 16,801 17,742 16,735 16,647 16,330	6,987 7,545 7,443 7,283 7,098 6,963 7,051 7,001 6,970	4,267 4,931 4,855 4,591 4,514 5,128 4,774 4,484 4,220
(Millions of dollars)	adjusted	Quarterly	1	1981 1981 1981		51,563 51,526 50,124		28,823 12,042 118,073	90,435 93,126 90,504	16,387 17,303 16,953	7,160 7,067 7,056	4,646 4,853 4,955
	Seasonally adjusted		Ton	1982 1982 19		52,037 52,002 53		29,537 12,271 115,752	94,702 91,899 90	16,905 16,843 1	7,362 7,132	4,805 4,783
		Monthly	1.00	1982 ^p 1982 ^r		54,417 53,485	8,001 320 430	32,507 31,304 12,353 12,304 120,740 120,646 1	98,165 97,786	16,375 16,239	7,473 7,402	4,835 4,984
			SIC Industry group		INDUSTRY GROUP AND INDUSTRIES	Durable goods industries Continued 36 Electrical machinery			Aircraft, missiles, and parts	Jack vehicles	products.	industries

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are of the end of the period and are not adjusted for trading-day Revised.

day or calebraseanty varies are regionalized.
The supplementary series are regionalized to the separate namestry categorites as follows
The supplementary series are regionalized furniture. Esteben articles and postery, cultery, handfools, and hardware, nonseehold appliances ratio and TV opinitalize, cooks, actions, and clarks and issuilamonse personal process. In the previous producery, capital goods and the defense producers, and any actions components in the defense personal and any action on the previous producers, capital goods and the defense personal and any action and TV, and algebraic components, the Vondefonse products--Nachinery, except electrical (excluding farm mathriery and equippent and mathriery and such an arrival and plants of supplicances, ratio and right communications of supplications of supplications of supplications and reports and restant recommunications entranced, arrival and ordered supplications and supplications of suppl 7

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		1 4820	1 45,21	. 1982	1.85	1 081	1 -43]	· · ·	1 .5.	: 5	Np.z.	J. Karl	Feet 8		Vpr . 1 +31	Mar . I es l	leb. 1-81	1
	,01M.c																	
	WII canadio caran, test tracs	1,1,1,1	77., da	276,244	275,275	.71,474	2 26 . task			. 1731.		6 . 5	301.136		, t . 7 . 7 . 4 .	20 7	266, 4133	35
	challeng transport of the	2.34,4279	1811,175	236,443	1 30.00	- 50,70 3	. 17,14	. 10	, , , , , ,				10.47	25,403,	. 'a.d.34	E - ' - 27		
	Manual a rating moleculars with	181,673	184,824	I st. bt. 1	. ***, **55	1 3% 3	, r	185. 30 1	1 1 1 1 1 1 1 1 1	1,	1 24 . 1 54	5	1 -1	154,34	4 9. 542	181.390	120,440	177 - 40
	fair tible goods unlikefultes.	183, +56	183,481	184,471	15., 2.		+ + + + + + + + + + + + + + + + + + + +	. 75.11			· ·		1 1 2 3 1 1	15+1.7	179,04	1 4 4 1 4 1	1,0,0,0	1,4,200
	orders	118,892	114,675	16 2, 200	lier, est	16 +, 1+1	164,4,7	161,52.			N 25 ' 1 2 T	16. 1, 77,	17	, v	1	161.290	1503	*
	Nonderthly goods tribostrites	40,7.3	MAN, In	41,736	415	1,10	1, 175			,,,,,	÷ :		:	7	4.1.02.5			7° 1
	orders	108,05	10,40.	71,167	71, 650	: 1.12	423	. 1	1.	1 4, 32*		5	2 0	JU, 34 5	, to, 04,	20, 16,	19.7%	1 4.4 5
	WIGHT CATHORITY.														_			
	Home goods and uppared	21,845	180,5.	22,610	\$ 5 \$ 2	22.778	71, 00,	1, .	E 8	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	÷ ;	2 1	1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to	1	1.36	47.3	2 1, 7 37	10,100
	. vid	246. 17	001.161				10,14										. ;	
	Automotive equipment	17,271	10,775	76,282	11,007	11,364	11.71.	11, 340	16	5 m	1 41 5	1 1	11,210	18.11	11,544	11.484	71,0%	11,111
	construction auterials, supplies, and intermediate products	21,244	.1,603	72,866	7	. , , , ,	23,000	-	2007.15	145.44	.1,67.	å :: 0;	101	n :	0	3	10,111	1.41.
	other materials, sepplites, and intermediate projects.	16.7,703	110,367	111,160	11, 11	110,338	111,624	108,478	107,666	102, 170	110,468	П., не з	111,444	111.455	108,503	107,642	100,013	104,884
	STUDIES STUDIES													-			***	
	Resemble durable poods radus				3								3	100	0.4	1,1		Total B
	tablea gods intostites	Ho, and	80,638	11,517	10, 402 80, 310	11,480	11,714 80,024	37, 376	20,236	077.87	10.7 E	36.364	50,302	54,85	82,074	81,10.4	50,407	77,201
	Nomite from Sec.	72,167	71,224	11,950	71,40	13,6+2	13,014	12,700	11, 184	11,021	72, 483 14,463	11, 194	72,145	13,637	11,147	11,424	11,592	11,272
	INDESTREA (ROLP) AND INTERBURE																	
	Churable goods industries											_						
3.5	Stone, clay, and glass	1,668	6, 87	6,837	6.781	197 2	7,037	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5, 345 5 6	6,L+0	1.417	P. 488	2000	6.623	6,627	6116	6,034	584
331	Primary actals,	2+,812	13,475	15,460	23,236	13,084	25,087	23,334	25,64	11,844	24,713	13,017	13,356	25,633	23, 312	12,241	25,313	23,136
333-п.	Vonterrous and other	100 100	30000		10 731	10 610	10.01	2	4	07	2	1 . 23	X 200	10.763	00	7	705	3,58
36	- 2	14,947	20,073	20,422	20,630	20,314	20,440	14,973	14,812	1 +, 773	20,344	30,138	20,516	20,426	20,212	20,219	20,132	19,426
140		1,428	1,437	1,502	1,313	1,343	1,078	1.571	1,637	1,744	1.648	1,545	1,569	1,454	1,744	1,817	1,841	1, 455
351	Engines and turbines	2,327	2,517	2,533	2,516	2,352	2,585	2,423	2,423	2,474	2.55.	2,525	2,551	2,521	2,443	2,432	2,481	2,833
353	Construction, stains, and	100.7	67917		0+111		41,114					10017						
354	material handling quipment. Metalworking machinery General industrial machinery.	2,438	4,447 2,470 3,404	9,834 2,534 3,435	1,648	2,647	2,749	2,636	2,624	3,561	2,460	2,480	2,051	3,974	2,068	2,635	2,700	2,732
200	See footnotes at end of table,																	

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATLADRIES, AND SUPPLEMENTARY SERIES.-CONTINUED

(Millions of dollars)

							SHOITING COLUMN	or correct										
					Seasonally	lly adjusted	q						104	seasonally	y adjusted			
			Monthly	٨			Ġ.	Quarterly						Non-hily	3.5			
SIC	Industry											Last 4 n	nonths		fast	4 conth	vear	
		Apr. 1982P	Mar. 1982 ^r	1982	Jah. 1982	1981	1981	1981	1 981	1980	Apr. 1982F	Mar. 1982 ^r	1982	Jan. 1982	Apr. 1981	Mar. 1981	Feb. 1961	Jan 381
	INDUSTRY CACOUPS AND INCLESTRIES-																	
	burable goods industries			-														
27.15	Hectrical machinemy	25,760	25,992	26,150	26,182	26,325	26,517	25,689	25,057	24,383	.6,1.5	20,146	76,041	.5,853	25,466	25,277	1	. +.+37
5	distribution equipment and industrial apparatus	1,885	1,908	4,484	4,485	4,528	4,7,4	4,488	4,263	4,163	4,595	1,939	1,430	1,467	1,4751	4,277	1.890	1 344
50	Radio and T		1,747	1,797	1,820	1,762	1,664	1,442	1,444	1,311	1,688	1,731	1,725	1,7-4	7,1113	1,406	1.341	1.31-
2.3	Heritonic components		4,749	+,733	4,791	4,856	4,874	4,795	4,560	4,557	4,750	1.287	4,7+5	4,724	4,226	17017	0.0.1	4.500
			39,142	8,555	8,641	8,970	9,316	9,275	30,111	7,694	9, 19,	8,538	8,737	8,832	134,45	33,457	1,76	7,634
72, 6	Aircraft, eassiles, and parts Shipbuilding and militing		26,714	26,374	26,013	25,750	25,468	2+,820	24,001	22,918	7,978	, 6,958	26,593	25,839	24, 482	2457	25,457	23,490
6,2			00417	704.7	10 + 61	70117	61,370	00012	7,10,12	0011	****	444	2000	- 1 3 3 3	Dr C * -	1/01/2	7	0
7-1-4	Scientific and engineering Photographic goods	9,960	9,712	9,707	9,606 6,812 2,307	9,765 6,910 2,375	9,738	9,603	9,380	4,281 b,47+ 2,243	2,111,01	9,805	4,712 6,413 2,330	9,567	4,723 5,812 2,358	F+++	.,376	9,287 6,318 2.21+
T. 0.	All other durable goods industries.	13,955	14, 193	14,120	14,286	14,478	14,880	14,508	14,213	14,046	14,160	14,323	14,383	14,342	14,566	14,400	14,400	14,137
, m	Nondurable goods industries lood and kindred products	2,180	21,7.5	21,082	21,071	21,101	21,826	21,862	22,237	22,325	34, (S.	2,281	21,311	21,783	2,368	21,477	2-,343	, , , , , , , , , , , , , , , , , , ,
18	heverages		3,794	3,806	3,842	3,873	3,863	3,743	3,909	3,866	1,831	3,492	3,904	3,881	3,410	4,010	3,414	5,930
93 6,9	9 All other toods		11,754	11,821	11,641	11,866	12,481	12,456	12,476	12.428	11,174	11,295	11,821	12,177	11,765	11, 184	12.386	12,796
	Tebrile mill products		5,3.4	6,441	6,469	6,038	5,400	5,570	6,518	5,307	0,47	0,100	- 110.+ 0,364	0,496	5,688	9,828	0,30	0,440
0.55	Pulp, name illied products		3,38.1	8,949	3,327	8,817	3,123	3,018	8,286	7.748	9,075	3,403	8,840	8,582	10 to c	8,230	0.134	7,744
	Paperbrard containers		2,347	2,352	2,321	2,385	2,337	2,255	2,188	1,473	2,398	2,350	2,314	7.07	2,240	2,171	2,101	750.7
	Themsels and allied products		20,543	20,219	3,090	20,438	3,128	20,218	3,126	3,032	1.000	17, 12	3,182	5,018	5,146 19,041	19,710	14,573	17,17
4.18	Industrial chemicals, except		6.738	6,743	6,737	6.788	6,810	19,40	6,693	0,244	0,134	n 1	6,845	755.0	6.710	0.051	6.2.51	200
33.4	Orugs, soap, and tolletries	65,6,8	6,238	6,248	6,166	6,041	5,867	5,834	5,819	5,612	6,304	6,134	0,107	5 1 4B	5,802	5,777	5,706	5,655
·	Subber and plastics products		966,6	9,016	8,710	8,680	4,206	966'5	4,685	0440	2,24,0	5, 54.	8,692	S '8' 2	7,581	4,357	3,745	х, ж
	n.e.c.	5,563	265'5	5,487	5,438	5,508	5,703	5,634	5,538	677.19	5,174	5,632	5,573	0,570	3, 66	5,673	5,623	7
m Pr	All other nondurible goods tadustries.	15,390	15,571	15,939	15,900	15,713	15,182	14,817	14,656	14,353	15,74	10,4474	12,356	10,344	1,,300	14,555	1-,,13	I+,05t
Ppre	Preliminary, Revised.												1					
1Sh1	Shipments and new orders are the totals	s for the pe	for the period and are		adjusted for trading-day	eday and ca	and calendar-courth variations,	th various		untilled orders on investories are	0.01 1.05 0.0	OFFICE RE	144 1 51	I the end of the period and an	perman	1 40 100	1 Stel 13	

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TABLE A VITE BEAMBOURDERS INDIVIDUES TO BE BEARDED IN BUILDING A GALL

1																																										
			-	1	3	17.4,25	20,134	3.1.5	34,45	100	(%+ . 47)	14,221	50+05	20,11	11,433	55,324	5.5	10,464	7,37%	2,463	16,507	2,262	24,155		41,428	74,624	x,529	17,454	34,514	3,471	14,304	2,736	* 7 .	76,477	39,306	5,014	10,484	3,448	5,201	37,671	3,538	23,171
			2 3	1 1 1	200,053	175,744	21,333	10,132	24, 143	4,334	×4.235	14,573	5,623	177.6	2,172	55,504	10	10,410	7,407	5,533	10,571	2,36-	2,301		45,276	80,708	8,557	18,766 [24,881	3,472	14,568	1,023	0.00	78,502	40,540	5,238	10,919	3,940	2,457	38,362	3,623	23,128
			A 1 * ES	141	200 , cas	100,001	23, 441	12,64	12.25		10,40	12,710	5,67	55,200	42,322	55,407	17.	10,521	7,355	5,447	16,415	2,476	2,150		45, 284	1,001	8, 835	18,003	24, 751	3,445	2,762	1,011	, -0.2 v	79,547	+1,125	5,381	11,156	3.946	2,494	38,472	4,261	22,911
	COLSELLE V	111	1 14	[He]	364,13.	1-6,0-1	24,482		25, 11,	100	11,50	14, 41	5,765	007.00	12,475	55,540	4 4	11,1150	2,636	5,8843	36,455	777.7	24,1100		96,718	1,00%	8,442	17,867	24, 482	3,530	2,22	1,04,1	0,221	80,403	41,650	5,512	4,814	3,863	2,634	38,753	4,213	23,105
	se to rall	11111	.5	3	274,1114	184, 172	15,433	10, 40 40, 41 41, 41 41, 41	25,853	.56	42.041	20,800	5,525	2	757.	56,872	55+45	11,735	7,517	5,483	17,387	2,289	24,745		18,403	9.10	10,268	14,126	25,741	3,431	14,332	1,063	Jan 1	м3, 186	43,664	5,870	12,447	4,236	2,461	40,322	4,040	23,968
			Freb.	1	1.	185, 1.	25,500	+2,852	24, 5 th		42.34	0.00	26,63	500,00	13,511	54,612	5.2	11,814	\$ + + 4 - +	5,48.		2,5	24,811		4 B 1 8 4 8	1,052	10,147	18,06	25,751	3,351	14,150	1,073	105.	85,573	44,874	6,054	5,108	5,121	2,541	40,699	3,891	24,135
			Mare.	1000		1 1	. <u>1</u>		7 2		2	- 1 - 1			3	2	7 -	11, 167	2 1	7	4				Y .	×	r - x	17,834	777	3,35.	2,689	1,120		45,492	25,54	6,141	13,.66	5,28c	2,573	40,143	1,878	23,689
			Appr.	d Carry		1.13	ić,		- 1			= 2 x				. 80.		n'il	Z	= -	36,1		1,103		, × ,	1, 11.	7 1	13,444	388	3, 5,4	1	7 7 7 7		- 15, 28	Call, the	P. E.S.	113,390	5, 334	2,808	39,648	3,348	23,719
			= 3		. 57, 40	111,11	*			10,000		* *	7.7.		£ .	400,000		30,444		\$	5,915	2 2 2	2,35,1		42,042	3,435	7,460	17,556	23,402	3,353	2,508	412	0,000	76,557	39,860	5,042	10,640	4,702	2,431	36,697	3,413	22,854
			- 3		24.74	136,00			1,00	1	4 7 7	4 2 2			11, 117	25, 4.5		10,8.1		5, 4, 5	5.64,64		21,690		45,368	80,58.	2,451	17,84.	24,059	3,489	2,740	1,006	011, 60	79,252	40,149	5,288	10,931	3,917	2,476	39,103	4,685	23,386
. 1 .		guarte els.	11		, to 4, 7 We	116,411			. 5 . 4. 4. 4. A.	100		-11-7			4,13	55,810	3 ·	11,21	188	5,58%	16,411	186	23,145		46,376	81,764	7,107	17,828	25,422	5 5 6	14,607	1,031	10240	81,204	41,091	5,378	11,302	3,844	2,542	4 509	2,258	23,587
	tes		99		276,12	185,211	· 1			1 7	11.11	20,000		1	1,13,	52,005	517.	11,000	X 6 6 6	5,742	80,100	14.7	2.4,230		18, 1851	1, 74.	7 431	18,517	25,499	1,415	14,568	1,055	07740	81,778	43,562	5,884	11,498	3,994	2,646	40,216	4,323	23,868
	ally actus		17.		275, 275	1× , , , , ,	.5,114		34,375		1,15×	2 438	1 d d d d		1 2 9 4 4 7	18,87.	5.7	11,590	7, 518	2,842	17,119	77.6	2.,552		48, 514	84,246 1,024	1,4,4	18,463	25,536	5,45	2,600	1,048	31.40	83,849	44,156	5,896	12,619	5,156	2,644	39,693	3,656	23,983
	Season		fin.		275,175	184, 157	35,746	10,13	34.01.	1, 286	11.11			1	15,454	Shy Sab	33	111,768	7,4884	5,421	17, 111	2,40	2.304		48, h5?	84,214	10,191	17,986	25,480	7 t E	2,677	1,026		83,195	43,628	5,713	12,570	5,080	2,493	39,667	3,855	23,908
		ly.	148)		276,24	184,4711	25, 486	42,517	24,1150	14,737	31,74	20,513			43,4 tB	56,435	4,118	11,8.0	4,542	5,4007	37, 103	2,386	2 4,480		40 t 40 k	1,007	10,1 14	17,886	25,482	1,309	2,69%	1,054	1	84,390	43,931	5,866	12,782	5,119	2,538	40,459	4,045	24,279
		Weath	Nor.	7/1/4	· .	143, 13	7	4.2,186	26.75	4,718	41,468	2 24 1D.			97, 58 7	15,851	215.6	11,502	9,40.	7,88.	16, 18	x x	1,165		97,476	83,267	7.994	17,686	25,524	3, 347	, n6t	1,094		85,475	44,312	6,000	12,998	5,214	2,544	40,763	4,268	24,201
			Apr.		ī,	183,436 (34,41.	42,115.	59.73.	7,9611	90,725	8 608	2 2 3		610°76	55,708	9,34%	11,600	7,278	5,766	36, 511	2011	24,607		47,tx3	452	7,857	17,738	25,880	3, 36.2	2,693	1,169		84,459	54,717	5,790	13, 364	5,712	5,327	39,742	3,654	23,763
			Transfer YV		VII sanutacturing industrials	goods	Primary metals	Fabricated metal	Electrical na himsty	Instruments and relation products	All other durable goods industries	Chemicals and allied products.	Rubber and plastics projects non-	WATERIALS AND SUPPLIES	All canufacturing industries	Durable goods industries	y netal	Nonelectrical machinery	Electrical machinery	Instruments and related products	Wondurable goods industries	Chemicals and allied products	Rubber and plastics products, newcommental other nondurable goods industrices	WORK IN PHONESS	All manufacturing insustries	Durable goods industries	Primary metals	Nonelectrical machinery.	Transportation equipment	All other durable goods industries	Vondumnable goods industries.	Rubber and plastics products	FINISHED GOODS	All manufacturing industries	Durable goods industries	Primary metals.	Nonelectifical machinery	Electrical machinery	Instruments and related products	Nondurable goods industries	Petroleum and coal productsRubber and plastics products, n.e.c	All other nondurable goods industries

Revised.

Ppreliminary.

Table 6. PERCENT CHANGES AND REVISION FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data

			Pe	rcent change	es				Revisions?	
Item and industry group	Mo	onth-to-mont	h	Avera	ge monthly	rates of ch	ange 1	lear	Average	monthly
item and industry group	March- April 1982	Feb March 1982	Jan Feb. 1982	First quarter 1982	Fourth quarter 1981	Third quarter 1981	May 1981 through April 1982	ago April 1981	April 1981 through March 1982	April 1977- 1981
Shipments:										
All manufacturing industries	-0.5	-0.7	+1.8	-0.6	-1.5	-0.6	-0.5	0.0	0.2	11
Durable goods industries	-0.2	-0.6	+2.9	-0.8	-2.0	-1.0	-0.8	0.3	0.4	0.3
Nondurable goods industries	-0.9	-0.9	+0.7	-0.7	-1.0	-0.1	-0.3	0.2	0.3	0.
Inventories:										
All manufacturing industries	-0.3	-0.5	+0 →	-0.1	-0.1	+0.8	+0.2	0.1	0.1	0.3
New orders:		ì		i						
All manufacturing industries	-2.3	+0.3	+1.3	-0.1	-1.8	-0.5	-0.7	0.3	0.3	J .
Durable goods industries	-3.9	+1.0	+2.5	+0.1	-2.6	-0.8	-1.1	0.5	0.7	0
Nondurable goods industries	-0.6	-0.5	+0.2	0 4	-1.0	-0.2	-0.3	0.3	0.3	0.
Unfilled orders:										
Durable goods industries	-0.7	40.2	-0.2	-0.1	-0.8	+0.3	-0.2	0.2	0.1	0

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entoriess	hipments ra	tio	Unfil:	led orders (months'		ratio1
Industry group	April 1982 ^p	March 1982 ^r	Feb. 1982	Jan. 1982	April 1982 ^p	March 1982 ^r	Feb. 1982	Jan. 1982
All manufacturing industries	1.74	1.74	1.73	1.76	3.84	3.78	3.76	3.87
Durable goods industries. Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical. Flectrical machinory. Transportation equipment. Instruments and related products.	2.32 1.77 2.76 2.10 2.74 2.24 2.21	2.31 1.78 2.87 2.05 2.57 2.28 2.29 2.34	2.31 1.79 2.59 2.14 2.56 2.31 2.38 2.37	2.38 1.75 2.39 2.25 2.63 2.37 2.58 2.45	4 66 0.52 1.44 3.12 4.72 4.72 11.81 1.87	4.61 0.54 2.57 3.15 4.51 4.68 11.52 1.79	4.56 0.59 2.43 3.25 4.62 4.61 11.67 1.79	4.68 0.60 2.39 3.41 4.87 4.70 12.51
Nondurable goods industries. Food and kindred products. Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.c.	1.16 0.96 3.81 1.60 1.39 1.36 0.59	1.16 0.95 3.86 1.52 1.39 1.35 0.66 1.62	1.15 0.94 3.62 1.60 1.37 1.35 0.64 1.55	1.15 0.96 3.67 1.70 1.34 1.36 0.58 1.48	0.59 (X) (X) (NA) (NA) (X) (X)	0.56 (X) (X) (NA) (NA) (X) (X)	0.58 (X) (X) (NA) (NA) (X) (X)	0.62 (X) (X) (NA) (NA) (X) (X) (X)

⁽NA) Not available. Preliminary. Re

¹ Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

The revisions are the differences between the month-to-month percent changes in the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

rRevised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm manifered and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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BUREAU OF THE CENSUS

3-1(82)

Manufacturers' Shipments, Inventories, and Orders

MAY 1982

For Wire Transmission 2:30 P.M. E.D.T. Wednesday, June 30, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in May increased \$2.4 billion or 1.5 percent from April to \$158.1 billion the Department of Commerce, Bureau of the Census reported today, Shipments of manufactured goods in May were up \$4.1 billion or 2.6 percent to \$161.2 billion. This is the largest one month increase in shipments since October 1980 and only the second increase since last June. Both the shipments and new orders in May were influenced by an increase in the value of petroleum products shipments of \$1.1 billion or 7.8 percent. For this industry new orders are considered equal to shipments for the month.

Unfilled orders for manufactured goods at the end of May were valued at \$314.8 billion, down 1.0 percent from April. Except for a 0.2 percent increase in March, the backlog of orders has been declining since the August peak of \$328.8 billion. The book value of manufacturers' inventories decreased \$2.7 billion or 1.0 percent in May to \$271.5 billion. This is the 5th decline in the last six months in inventories.

New orders for durable goods in May were up \$0.5 billion or 0.6 percent to \$78.1 billion. All of the major industries except machinery showed increases. New orders for primary metals were up 3.7 percent following a 4.0 percent increase in April. Prior to that primary metals orders had declined eight consecutive months. New orders for nonelectrical machinery were down \$1.2 billion or 8.0 percent to \$14.0 billion with most of the decline coming from the computer industry. New orders for electrical machinery were down \$0.9 billion or 6.9 percent to \$11.5 billion with a large decline in orders for communication equipment offsetting increases in the other industries.

Within the capital goods sector, new orders were down in both the defense and nondefense categories. New orders for nondefense capital goods were valued at \$19.7 billion, down \$1.7 billion or 7.9 percent from April. New orders for defense capital goods declined for the 3d consecutive month, following large increases in November through February. The May decline was \$0.7 billion or 12.4 percent to \$5.1 billion.

The \$4.1 billion increase in manufacturers' shipments in May was split between the durable and nondurable goods sectors. Durable goods shipments were up \$2.1 billion or 2.7 percent to \$81.1 billion, while nondurable goods shipments were up \$2.0

billion or 2.5 percent to \$80.1 billion. Within the durable goods category, the largest increase was in transportation equipment where shipments were valued at \$18.9 billion, up \$1.1 billion from April. Although the aircraft industry accounted for over half the increase, shipments by the motor vehicle industry continued to improve, showing its 4th consecutive monthly gain. Shipments of primary metals were down \$0.3 billion or 3.3 percent to \$8.7 billion with the steel industry causing the total decline.

Within the nondurable goods industries, the petroleum industry reported a \$1.1 billion or 7.8 percent increase in value of shipments following declines in 5 of the last 7 months. Chemical shipments were up \$0.3 billion or 2.3 percent while paper product shipments were down \$0.2 billion or 3.4 percent.

Declines in the orders backlogs of manufacturers was widespread. Unfilled orders for nonelectrical machinery were down \$1.9 billion, transportation equipment \$0.7 billion, fabricated metals products \$0.5 billion and primary metals products \$0.3 billion. The only significant increase in backlog was in the all other durable goods category which increased \$0.5 billion or 8.4 percent.

The decline in the book value of manufacturers' inventories was concentrated in the nondurable goods sector. There inventories were down \$1.6 billion or 1.8 percent, over half of which was attributable to the petroleum products industry. Inventories of durable goods manufacturers declined \$1.1 billion or 0.6 percent to \$182.3 billion. The inventory to shipments ratio for May was 1.68, down from 1.74 in April.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting. but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for June is scheduled for release on July 22, 1982, and full report is scheduled for release on August 2, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALLE OF MANTPATTINGES SHIPMENTS FOR INDICITIVE GROUPS, WARRET CATEMBRES, AND SUPPLIMENTARY SPRIES

(Williams of dollars)

1			a		5 9 5	,8b4	785	. 566	355,004	664.405	.775		58.337	124.591	.875	.43.4		25,707 137,527 118,116 19,408		1,297	31,063	23.870	4,133 84,615 6,824 6,653	613 71
	hear-to-date	-	1481		8 53	734,	+37	4.28.	_	,	, 82.					3 1 377.								
) ear		1 482		744, 528	706, 421	418,674	399,064	335 117	395,464	81,557		56,22° 144,973	124,200	55,421	30,043		24.678 136.327 113,249 23.078		18.38.	48,357	19,928	3.988 95,151 6,658 5,132	15.033
		ako	Feb. 1 481		167 163	144.456	87,688	84, 74b	70,846	82,416	16,792		12,178	24,483	12,236	76,500		27.367 27.367 23.532 3,834	-	3,903	12,253	4,959	856 16,982 1,358	000
ą p		d year	Mar 1981		175 25	154 728	93 241	91.521	76,060	83.724	17,181		12,544	27,412	13,125	78,063		5.598 30,044 25,774		4.277	12,559	4,936	854 18,412 1,461 1,461	
y adjuste		* months	Apr.		170,022	150 144	84,351	88,627	72,512	81.505	16,839		11,821	25,441	13,413	75,418		5, 352 27, 960 23, 465 3, 995		4,364	12,431 6,437	4,789	840 17,194 1,351 1,460	
Not seasonally adjusted	^1	Last	Wav 1 æl		les tate t	lab 475	83.150	88.25.	72.411	80,751	16.739		11.541 27,841	25 416	13.275	15,848		5.105 27,969 23,954 4,015		4,279	12,267	4,683	865 16,869 1,362 11,309	
Vot	Monthly		Feb.		7	144 142	¥	NO. 277	1 2 4	80,672	17.144		12,441	25,687	10,611	71.080		5,677 28,274 23,694 4,580		3.541	10,146	4,023	817 17,013 1,345	
	1	" onth	War 1982r	1	16. 154	861 8*1	89,552	83.366	71, 794	81,788	17,758		12.553	27,443	11,627	71,666		5,562 24,434 24,764 5,030		3,867	9,840	3,911	829 17.892 1,475 1,101	
		Last 4 m	Aşr. 1982r		8+5 +01	14 1, 553	83. 348	. 89.	57.54	78 336	16,518		11, '46 28, 992	24, 205	11 597	64.361		26,409 21,827 4,582		3, 799	9,591	4,099	803 15, 652 1, 305 1, 037	
			Va.,	•	11.2 .36 ,	***	7 7 X 7 X	82.5.0	118,324	46.036	16,5%		24.144	24, 173	13, 174	To 600	-	27,655		3,937	9,052 4,079	3,989	813 15,903 1,255 1,041	_
				+	1 18 +23	+41 ft+	268 852	Str. 334	217 285	24×. '84	51,567		37, 40% 87,405	17,437	17,313	26,323		16,146 85,974 73,112 12,862		12,278	35,561 13,268	14,018	2,441 51,669 4,404 3,817	_
	quarterly.	-	1 181	,	+67 143	+4,717	258.493	245,370	207,622	241.775	50,871		34,852	18,444	34,881	17,527		15,243 86,1H3 72,717 13,466		11,527	31,503	12,348	2,481 51,787 4,204 3,501	_
	n?	.	12851	,	, 14 468	187 000	252, 15H	236, 689	201, 365	2 11.774 2	50,942	~	35,300	75, 387	34,202,	207,414		15, 278 82, 509 68, 835 13, 674		11,505	24,262	11,698	2,558 49,148 3,843 2,832	
Seasonally adjusted		-	2882	1	131.421	1 +2, +30	84.721	74,734	67,668	14,670	17,053		29,772	25,507,	11,288	64,2,6		5,138 27,835 23,217 4,618		3,825	4,847	3,921	864 16,616 1,245 1,029	
Seasonal			1982r		1,18,442	141.342	84,737	79,454	h7,334	78,488	17,403		12,069	25,699	11,581	67,746		5,280 28,036 23,141 4,895		3,803	8,873	3,581	812 16,429 1,239 909	
	Wonthly	-	1,482r		157, 179	139.407	82,367	79,020	65,835	78, 159	16,532		11,459	24, 039	11,279	67.856		5, 185 26, 328 21, 783 4, 545		3,741	9,012	3,817	815 15,430 1,331 907	-
		-	1,482P		161,249	142, 337	84, 298	81,134	67,707	80,115	16, 591		11,602	25, 071	11, 745	69, 779		5, 044 27, 729 22, 785 4, 944		3,846	3,979	3,810	15.907 1.265 967	
		Industry		TOTALS		Nanutat turing industries	unfilled orders	Durable goods industries	orders	Nondurable goods industries	Orders	MARKET CATEGORIES	Home goods and apparel		Construction materials, supplies, and intermediate products	Other materials, supplies, and intermediate products	SUPPLEMENTARY SERIES?	Household durable goods indus- tries. tries. Capital goods industries. Nondefense. Defense.	INDUSTRY GROUPS AND INDUSTRIES	Durable goods industries. Stone, clay, and glass products	Primary metals	Fabricated metal products	drums care, mid drums care, mid drums care, mid drums care electrical. Engines and turbines. Pars machinery and equipment.	Construction, mining, and
		SIC																		-	33 333-9	34		_

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--CONTINUED

(Millions of dollars)

							(Millions	(Millions of dollars)	(8)									
				Seaso	Seasonally adjusted	pa						Not	seasonally	y adjusted 1	11			
			Mon	Monthly			Quarterly					Monthly	, y				Year-to-date	-date
SIC	Industry									Last 4 mc	months		Last	4 months	a year ago			
		мау 1982Р	Apr. 1982	Mar. 1982	Feb. 1982	1982	11	1981	May 1982P	Apr. 1982 ^r	Mar. 1982	Feb. 1982	May 1981	Apr.	Mar. 1981	Feb. 1981	1982	1981
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
36 361,2	Electrical machinery	11,647	11,476	11,422	11,300	33,788	33,854	35,062	11,404	11,441	11,955	11,548	11,338	11,301	11,812	11,293	56,624	55,727
363	industrial apparatus		1,758	1,832	1,769	5,383	3,058	5,901	1,852	1,783	1,936	1,900	1,937	1,900	2,035	1,903	9,179	414,6
365	Radio and TV.		829	931	3 400	2,552	2,486	2,765	709	725	903	812	782	860	901	919	3,827	4,183
367	Electronic components Transportation equipment	2,470	2,438	2,345	2,350	7,030	51,428	57,354	2,458	2,509	2,432	2,421	20,067	2,355	20,522	2,777	12,004	93,701
372,6	Aircraft, missiles, and		570 644	10000	00042	210101	277.600	10,400	12,037	75,200	11,042	10,233	13,043	+00 171	716'71	057*11	29,262	26,845
37.31	Shipbuilding and military	966'7	4,335	4,683	4,363	13,366	14,/4/	14,218	5,081	4,380	576 47	4,473	4,820	7,891	5,325	4,354	22,621	23,128
3795	Instruments and related	1,340	1,163	1,319	1,349	3,680	3,474	3,616	1,370	1,166	1,336	1,260	1,159	1,178	1,151	1,068	6,051	5,546
381-4	products	4,292 2,424 1,596	3,957 2,284 1,415	4,142 2,532 1,334	4,103 2,400 1,448	12,165 7,209 4,195	12,628 7,550 4,282	12,812 7,508 4,442	2,419	3,906	4,335 2,651 1,396	4,007 2,407 1,348	4,148 2,399 1,451	3,979	4,327 2,591 1,411	4,027 2,325 1,413	20,009	20,119 11,890 4,781
24 25 39	All other durable goods industries	7,811	7,948	7,902	8,005	23,557	23,720	24,338	7,439	7,993	8,1,1	7,721	8,521	8,762	\$ 50.	8,177	38,313	40,963
20	Nondurable goods industries. Food and kindred products		21,958	22,028	22,421	66,363	64,866	67,512	21,989	21,604	22,927	22,591	21,749	22,312	22,860	22,348	109,472	110,167
208	Beverages.	3,198	3,297	3,133	3,269	9,480	8,583	8,948	3,314	3,324	3,130	2,890	3,121	3,075	2,848	2,571	15,235	26,230
203-6,9	All other foods		8,498	1,6/0	9,046	26,583	25,446	26,509	1,477	1,578	9,535	9,412	1,668	1,812	1,84.4	9,711	8,108,	8,856
21	Tobacco products		1,202	1,138	1,190	3,510	3,465	3,592	1,196	1,209	1,112	1,121	1,046	1,101	1,060	1,058	5,773	5,299
26	Paper and allied products		0,343	067 9	6,520	19,510	19,575	19,476	6,744	6,384	6,761	6,622	6,553	6,587	6,799	6,679	32,253	32,650
261-3	Pulp, paper, etc		2,694	2,877	2,822	8,496	8,548	8,674	2,704	2,759	2,993	2,872	2,951	1,670	3,006	2,898	7.911	14,362
264	Chemicals and allied products		2,111	2,008	2,082	6,221	6,182	5,803	1,994	2,050	2,090	2,121	1,939	2,018	2,098	2,116	10,363	10,109
281,6	Industrial chemicals, ex-		1		1 1				700,67	100,00	001	2000	CTA CT	100	77,401	003101	(1,41)	0.00
283,4	Drugs, soap, and toiletries	4,839	4,671	4,813	4,993	14,712	15,544	11,382	3,873	5,031	5,362	5,203	3,400	3,491	6,116	3,452	25,304	27,962
23.23	Petroleum and coal products Rubber and plastics products,	15,742	14,602	13,809	14,080	43,001	47,851	48,313	15,579	14,379	13,793	14,397	16,236	15,723	16,109	17,091	73, . 84	82,023
2.3	n.e.c	3,557	3,513	3,396	3,549	10,618	11,285	12,056	3,618	3,669	3,622	3,678	3,915	4,133	4,017	3,869	17,474	19,548
31	All other nondurable goods	12,254	11,860	12,770	12,640	37,274	36,688	37,392	11,699	11,581	12,707	12,702	11,+30	11,708	11,85-	11,992	59,313	57,475
Ppre	Ppreliminary. FRevised.																	

by pments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for

indange and or calcularionath warations of the separate industry citegories as follows

Fine supplementary series are regroupings of the separate industry citegories as follows

Fine supplementary series are regroupings of the separate industry, citegories and pottery, cutlery, and hardware, household explaints code, atthes, and clocks and miscellaHousehold supplemental goods.

Gaptian goods industries—Comparable to the previous produces' capital goods and the defense products (old series) categories.

Gaptian goods industries—Achinery, exept electrical Containing farm methylery and equality in the series of the containing farm methylery and equality farm that is a series of simplicating and requiring and requiring and equality and salload equality and salload equality and electrical reports on official exercises of simplicating and reports on defense voted. At the old by integ defense contractors in the following industries. Ordinare, communication equality in the NA-13. Shipments to Federal Government Agencies (forestly Shipments of Dictions-official Industries), in the Special Shipments of Pricines-official Industries. In other NA-13. Shipments for Federal Government Agencies (forestly Shipments of Dictions-official Industries), in the Special Shipments of Pricines-official Industries.

TABLE 2. VALUE OF MANDERSTURENS, NEW ORDERS FOR INDUSTRY GROUPS, WARRED CATEGORIES, AND STYPLENESTARY SERIES

4

(Williams of dollars)

Seasonally adjusted Worthly Vonthly	Seasonally adjusted	Seasonally adjusted			Quarterly		-				Not	r seasonal]	Not seasonally adjusted	1		Year-to-date	date
	May	Apr.	Nar.	Seb.	200	1	111		Last 4 m	months		Last	6 months a	a vear ago	0		
1×82P		19827	1982r	1987	1982°		1481	Man 148.P	Apr.	Mar.	Feb.	Max 1481	Apr. 1981	War.	Feb. 1+81	1487	1961
158,071		155,715	159,372	158,447	474,291	+78,347	11,118	157, 303	138.588	167,49.	160,958	168,602	171,426	177,003	169,653	793, 023	844,314
139,824		138, 162	139 932	139,414	-18.749	431,117	4.11,207	139,331	139,575	1-7,339	142,444	148,642	151,821	155,244	151,894	700, 738	748,255
81, 120		80,903	85.667	83,758	251, 790	144,743	371,547	79.000	92.84H	90,303	85,304	88,712	91,255	766 75	40,178	417,108	448,533
78,097		77,630	80,501	74,217	230,486	137,524	.43,324	77,527,	8. 299	86.1.15	80,727	87,680	30,242	43,232	84,493	398,021	438,304
64,670		64,445	и8, 381	125,125	201, 362	194,776	220,270	63,356	nb. 397	72 534	18,603	71,802	74,127	77,771	73,143	334,073	384,747
79,974		78, 085	78,871	74,250	237,215	240,873	547,744	14 176	78, 289	81, 499	80,2,4	80,922	81,584	83,771	82,659	395,002	400,004
orders in the state of the stat		16,458	17,286	16,633	30,428	695 57	51,217	16,3101	16 451	17, 70%	16, 701	le, ald	17,128	17,223	17,036	83 095	83,784
53,524		61,627	61,385	62,617	186,787	140,404	146, 127	63,466	51,838	hw, 030	63,528	54,012	hu,55h	16,548	45,634	311,907	322,222
			Ī														
12,403		11,519	12,420	11,893	35,490 88,154	34,123	37,402	29,119	111.442	12,446	24,746	11,484	12,133	12,771	12,602	37,895	59,315
Equipment and defense products, except automotive		24, 732	26,619	26,433	13,640	35,466	44, 149	21,083	25,374	15,418	27,334	10,040	20,420	28,-19	25,004	127,275	130,010
11,446		10,741	11,909	11,000	33,687	34,302	37,117	11.846	11,189	12,037	10,377	13,239	13,346	13,281	12,249	54,609	63,028
69,824		66,610	67,058	67,566	202,441	212,983	227,204	69,324	68, 132	71,340	465,493	76,185	76,734	78,630	77,877	345,832	381,233
5, 839 24, 879 19, 742 5, 137		5, 244 27, 304 21, 443 5, 861	5, 617 29, 993 22, 069 7, 924	5,033 29,130 20,461 8,669	15,552 87,563 64,274 23,289	14,519 82,041 67,327 14,714	16,150 89,747 71,952 17,795	5, 767 23, 443 18, 688 4, 755	5,374 27,800 21,498 6,302	2,939 30,399 23,376 7,523	5,120 29,643 22,050 7,593	4,981 27,903 22,747 5,106	5,636 24,301 4,320	5,789 30,499 25,918 4,580	5,735 27,853 22,520 5,333	26,386 139,390 106,265 33,125	25,644 144,242 120,280 23,957
							-	-									
3,899		3, 634 8, 072 3, 672	3,671	3,751 8,584 3,987	11,071 25,500 12,019	11,661 29,580 15,180	12,110 35,490 18,540	3,973	3,752	3,771 8,991 4,328	3,485 9,551 4,758	4,295 11,802 5,900	4,357 12,500 6,790	13,401	3,944	18, 128 44, 886 21, 369	20,343 61,670 32,148
metal products 3, 718 Fabricated metal products 9, 472 Machinery, except electrical 13, 988 Engines and turbines 1,408		3, 682 8, 792 15, 204 1, 044	3,365 9,778 14,410	3,802 9,555 14,578 1,410	11,024 28,090 44,552 3,590	11,678 27,814 51,061 4,396	13,656 30,759 51,532 4,343	3,776 9,550 13,537 1,368	3,817 9,106 15,317	3,847 10,391 15,651 1,201	3,956 9,406 16,125 1,485	4,673 10,673 16,635 1,241	4,622 10,625 17,826 1,428	5,204 11,209 18,198 1,451	5,142 10,447 17,256 1,214	19,367 46,584 74,927 6,009	24,008 52,326 86,718 6,977
2.317 656 1,247		2,056 583 1,043	2,541 528 1,268	2,863	8,373 1,993 3,977	9,955	10,520 2,267 4,504	2,242 637	2,297	2,721 647 1,306	3,087	3,440	3,999	3,707	3,662	13,180 3,284 6.343	18,326

2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATECORIES. AND SUPPLEMENTARY SERIES -- CONTINUED

(Millions of dollars)

Industry INDUSTRY GROUPS AND INDUSTRIES— Continued Injection Continued Injection I

Supports and new orders are the totals for the period and are adjusted for trading-day and salendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for rRevised,

Capital goods industries—Comparable to the previous producers' capital goods and the defense products (old series) categories.

The defense products—despitated (excluding from machiners) and educations and the series of subputing from machiners and education (expension) and the monofederse products—despitated and surrect parts; and ordanice.

The monofederse products—absert on separate reports and reference of the filed previous orderse over the defense over contractors in the following industries, communication equipment, aircraft parts, and shipputifing.

The data are comparable to those postersed manually in the Mg-IP3. Shippents, to previous infinite industries is for the specified invasting. Irading-tape catalogar-month variations.
The supplementary-series are regroupinge of the separate industry categories as follows:
The supplementary-series are regroupinge of the separate industry categories as follows:

Rousehold durable goods industries—Household furniture: witches and pottery, cutlery, handtools, and hardware; household durable goods industries—Household furniture: witches and pottery, cutlery, handtools, and hardware; household durable goods industries—founded in the contract of the separate industry categories as follows: neous personal goods.

TABLE 3. WALKE OF WANDACTHERS! EXPILIED ONDERS FOR INDIGERY RESHIPS, WARKET CATEORIES, AND SCHOLDNETARY SHELLS

							Willions of	f follars		-								
					Seasonall	I, adjusted							You	seasonally	y adjusted	1		
			Monthly	hlv			20	quarterly						Monthly	ly .			
SIC	Industry								1	1		lant + 4	T onthe	-	Last	+ months	a vear ago	
		Mav 1982P	Ap. r 1982 r	Nar 1982	Feb	= E	111	19 × 1	= × × × × × × × × × × × × × × × × × × ×	l . ∴ ≩	May P	Apr.	Mur. 1 as r	Feb. 148.	May [4×]	3981	Nar 1481	17.1
	TOTALS																	
	All manufacturing industries	314,832	318,012	119 + * +	318,553	113 865	1.8 4 2.5	5. 5.418	7 4 7 5	0.81, 134	Us o.	a	C. M	15.713	328 +11	, 100 X	10x 243	25 143
	Manufacturing industries excluding transportation	195,074	197,588	138,811	2.00.246	208,438	140,541	311 2	Set to a	n, 58a 1	14. 01.	200,442	.01, 527	825 766	211 742	212 360	210.388	% × %
	Durable goods industries	305,360	308, 017	DF. 6UE	30B, 46	3.19. + 2.1	1,450	311 5	51. 48	N8,815	190, 1903	11. 014	11.0.11	311 883	310 340	11, 14,7	315 323	11 11
	Nondurable goods industries	2.5.4	4.015	4,689	71 B . 4	15.	11 13	11.44	11	1 91 6	4.555	9 814	9.8803	4 Rhh	11.675	208 III	11 114	11 175
	MARKET CATEGORIES					Ī												
	Home goods and apparel	\$ 5,228	4,433	, ,	195	1 97 7	4.4.1	7 E	700.7	× × × ×		00 00 7	Ž	5	f. 'Ja	r. 580 †	;	,
	Equipment and defense products, except automotive	191,671	195,389	195,084	194,219	1437	193,148	190,926 1	191, 324 12	186,876 1	197, 105	196.780	196,079	195,848 ·]	192,595	143.134	192,302	191,494
	Construction materials, supplies, and intermediate products	15,438	15,738	16.277	15,949	16,791	1,8,1	17.60.		1, >87	15,669	1 , 948	16.355	15.445	17,401	17.437	17.534	27
	Other materials, supplies, and intermediate products	102,495	102 452	103.697	1 14 583	138.674	113.215	112 581 1	11 ; s 11	11111	101,194	104 > 45	105,764	1 16, 18, 1	113.736	113 +24	112 6 03	112 337
	SUPPLEMENTARY SERIES ²							-	-					-				
	Household durable goods indus- tries. (Capital goods industries. Nondefense. Defense).	4,135 224,680 132,683 92,000	3 439 247,528 135,721 91,80	1,280 226,555 136,062 90,493	224,663 137,139 87,464	3 307 721,617 14 ,737 81,880	3 35 225, 758 146, 176 79, 63.	188 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.56.55. 8.28.5.5.5. 1.47.92.4.4.	16.018 147.674 68.355	132 681	234,274 136,599	3.145 137.688 136.982 9.954	236. K. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2,090 14,000 14,000 13,090	221,550 148 739	3 244 221,133 148,635
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33 331 331-6.9	Durable goods industries Stone, clay, and glass. Primary metals. Blast furnaces, steel mills.	1,768 21,552 12,455	21,715	1,823	1,955	2,257 26,599 15,977	2,124 28.521 17.168	2.292 28,595 16,897	2,288 28,955 16,926	2,450	1,848 22,422 13,152	1,813 23,117 13,507	1,859	1,954 25,073 14,719	2,341 30,264 17,982	2,325 30,730 16,380	2.332 30.661 18.026	2,376 29,818 17,400
35	Na Na	6,490 26,874 67,862 18,210	6,583 27 411 69,779 18,067	6,718 28,302 70,005 18,353	6,934 28,306 72,023 18,595	7,392 28,746 74,713 18,605	8,062 29,856 75,440 18,413	8,425 30,362 75,578 18,474	8,557 30,134 74,602 18,241	9,308 30,189 74,396 17,405	6,640 26,938 67,934 18,113	6,853 27,588 70,298 18,001	7,13+ 28,406 70,635 18,383	7,197 28,289 72,877 18,657	8.912 30.028 75.620 18.218	8,922 30,154 75,853 18,340	9,089	8,822 30,125 75 +34 18 273
354	Construction, mining, and material-handling equipment. Metalworking machinery. General industrial machinery.	7,833 3,483 6,161	8,486 3,558 6,181	9,365	9,944	10,722 4.830 6.590	11,343 5,736 6,669	6,459	9,760	8.765 7.292 6.177	3,473	8,707	9,506 3,946 6,410	10,063 4,332 6,551	10,553 6 543 6,589	10.507	9,908 7,013 6,339	9,522

See footnotes at end of table.

TABLE 3. VALUE OF WANUPACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--CONTAINED

(Millions of dollars)

							(WELLALDIES	(Militarians of dollars)	9.1									
					Seasona	Seasonally adjusted	-						Not s	Not seasonally adjusted ¹	adjusted1			
			Monthly	hly			3	Quarterly						Wonthly	1,			
SIC	Industry group	Man	1 4	No. or	4	**	:	;				Last 4 mo	months		Last	Last 4 months a year	a year ago	
		1982 p	1982°	1985	1982	1981	1981	1981	1981	1980	May 1982	Apr. 1982'r	Mar. 1982	Feb. 1982	чау 1981	Apr. 1981	Mar 1981	Feb 1981
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery	54,315	54,414	53,485	52,037	51,563	51,526	50,124	767.87	47,225	54,769	54,782	53.978	52,495	759.67	49,403	48.878	48,460
	distribution equipment and				0													
363	industrial apparatus	334	317	320	301	339	390	8,392	8,361	7.967	7,837	. 90.	8,011		8,522	8,400	8.371	8 293
365	Radio and TV	805	312		423			378	785						555	1000	1, 20	417
366	Communication equipment	31,965	32,501		29,710			27,542	26,345		_				27.117	26 923	26 P. K.S.	26 307
367	Flectronic components	12,613	12,379		12,372			12,207	11,733					12,547	12,726	241 24	11,809	11,792
372.6	Aircraft, missiles, and	119,730	177.071		100,301			113,513	116,198	113,043					116.679	116.787	116.556	116.319
37.31	parts	97,786	97,975	97,786	94,702	90,435	93,126	90,504	91,299	88.371	97,508	98,463	97,753	95,783	91,055	40 71b	91 327	91,076
3795	tank vehicles	16,120	16,258	16,239	16,905	16,387	17,303	16,953	16,478	16,087	16,250	16.761	16,537	16,740	17.399	17,743	16,735	16.647
25	products	7,466	7,441	7,402	7,362	7,160	7.067	7.056	7,012	6,387	7,464	7.511	7,443	783	6,380	6,963	7,051	7,001
39	Industries	5,765	5,316	5,289	4,805	4,646	4.853	4.955	4,915	4,267	6,145	5,519	5,150	165,4	5,187	5,128	4,779	4,484
		Name and Address of the Owner, where																

rRevised. Ppreliminary.

Vangements and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are the totals for the period and are not adjusted for trading-

day or teindar-mount variations.
"The supplementary series are rencouplings of the separate industry categories as follows:
Household duraties—Household industries—Household furniture, kitchen articles and poitery, cutlery, handtools, and hardware, household appliances, radio and IV, ophthalmic goods, watches, and closes and inscellaHousehold duraties—Household furniture, kitchen articles and poitery.

persons persons the previous producers' capital goods and the defense products (old series) categories.

Capital posts instrice—Comparable to the previous producers' capital goods and the defense products' and annual series and ordinate.

Nonefense products—Stathbey, escept electrical form annual properties of series and series and ordinates.

Nonefense posts of an ordinate and regarding and maintained and anticology of the products of the property and supposition of series produces and suppositions of series produces and regarding of the property and suppositions of series produces and suppositions of series produces and suppositions of series produces and suppositions of series and present and suppositions and series and seri

Table 4. ALTE OF MAY FATTERRY IN EXPORTES FOR INTUSTRY ROLPS, WARNET OXIGOSTRY, AND SUPPLEMENTAL SELLEN

William of dollars

					village seas	To ada sent	VIIIION.	a dollars					7	vi la mara de	ad 1 who is			
					To a contract													
			Wonthly	aly			'nh'	Joantenly		_				Monthly	1.9			
SIC	Industry					:		:	-			last + mo	months		Last	- months	a year ago	
		1982 p	Apr. 1982 r	1987	1787	1981	1481	1361	1481	1381	May p	Apr. 1982	Mar 1982	Feb 1981	Nav 1+81	Apr 1981	Nar 1981	Feb 1981
	POTALS																	
		271,512	274,179	274.918	176.236	JL X	1,4 h]t	7 74	7 34 S	14 H	274, 103	: 574,475	7h, 358	4.6	271 6.19	269.614	36, 908	255 153
	Manufacturing industries ex- cluding transportation	231,981	234,463	235,776	3.86 49.5	236.734	. 57.19.	231, 81	2.8 413	2.1 170	Bu, alt	236,526	236,854	238 178	233.131	.31.154	159,655	227,872
	Manufacturing industries with unfilled orders	188,515	189,640	189.53	191,003	19 , 461	1×9,85	18.00	lan incl	174,736	191,300 1	191,472	677	5 47 7 61	184 421	183,392	181 356	179,840
	Durable goods industries	182,289	183,356	183,430	184,470	184 69	+1 : 21	1.8 4.4	1 65 94 1	1,693 1	184,636	85,323	185, 179	185,727	179,459	160 6.1	177 879	176,849
	Durable goods with unfilled orders.	1+7,782	168,870	158,675	169,980	164,391	F. 641	11.2 821	1 1,7, 191	- ·	1 388, 69	20,342	ng. 17	092 021	163 733	162,849	161,79	150,058
	Nondurable goods industries	89,223	90,823	91.488	41.736	41 188	91 476	**. 16	362.06	84,377	196,98	080,16	91 279	92.049	91 650	90,523	670'06	89 205
	Nondurable goods with unfilled orders	20,733	20,770	10,954	21,169	274. 2		215	1	471.75	21,316	081,130	10,970	23,945	20,588	20.543	20,065	19 '82
	MARKET CATEGORIES															~		
	Home goods and apparel	21,881	33,460	13,488	33,402	22,773	33.142	21,417	3, 880	29,863	22,753	33,157	33,243	33.613	32.149	21.836	32.571	32,728
	0 :	76,977	77,226	76,105	, te, 185	75,823	27	7 5, 240	71.40	8 F. F.	77,745	77,931	76.963	76.738	73,455	7.6.2.	72.211	21 885
	Automotive equipment	000101	10, 100	10,173	000'	77, 304		, it is 111		c	.01	(110)	10.100		* T T T T T T T T T T T T T T T T T T T	11.099	11.909	L 040
	and intermediate products	21,248	21,235	21,601	. 1,864		23 6	193	21 602	71bh	21,642	21,832	22,231	22 381	22,469	22.764	22 235	22,045
	intermediate products	107,537	109,506	110.862	111,160	110,338	111,624	108,478	1 999, 50	102,070 1	108,745 1	110,272	.10,865	111,444	109,395	108,503	197,692	106 513
	SUPPLEMENTARY SPRIFS																	
	Household durable goods indus- tries. tries. Toplial goods industries. Nondefense. Defense.	10,437 86,361 71,825 14,536	10,605 86,641 72,145 14,496	10,638 85,658 71,224 14,434	10,837 85,921 71,850 14,071	10,880 85,289 71,647 13,642	10,719 85,474 72,055 13,019	10,250 82,45 69,676 12,700	81,236 81,456 68,473 11,964	9,992 78,245 67,124 111,021	10,826 87,382 72,468 14,714	10,767 87,470 72,961 14,509	10,669 86,364 71,994 14,370	10,802 86,176 72,145 14,031	10,710 82,606 70,162 12,444	10.523 82.074 69.871 12.197	10,278 81,109 69,181 11,929	10,119 80,457 68,866 11,592
	INDUSTRY GROUPS AND INDUSTRIES																	
32 322 33	Durable goods industries Stone, clay, and glass products Class containers. Primary metals.	6,674 660 24,326 12,775	6,692 660 24,794 13,089	6,787 680 25,445 13,475	6.857 542 25.486 13.262	6,967 554 25,194 13,089	25,087 13,120	6,599 595 23,334 12,169	6.398 5.38 23.640 12.722	6.145 593 21.976 11.844	6,901 671 24,441	6,942 675 24,696 12,749	6.988 678 25.187 13.017	7.059 642 25.566 13,235	6,732 620 23,277 12,051	6.627 63.312 12.043	6,588 606 23,391 12,290	6,554 619 23,313 12,433
333-6,	Nonferrous and other primary metals.	10, 301	10,405	10,625	10,772	10,619	10.511	9,819	9.563	8,802	10,435	10,582	10,774	10.858	9,812	9.852	9,694	9,509
341 35 351 352	Metal cans, barrels, and drums. Machinery, except electrical. Engines and turbines. Farm machinery and equipment.	1,440 42,550 2,500 2,625	1,423 42,528 2,523 2,523	1,437 42,186 2,517 2,675	1,552 42,517 2,533 2,711	1,343	1.578 42.017 2.585 2.712	1.571 40.342 2.423 2.749	1,637 39,618 2,423 2,801	1,744 39,189 2,474 2,774	1,634 43,110 2,547 2,707	1,642 43,068 2,559 2,771	1.595 42.671 2,525 2,833	1,569 42,852 2,551 2,866	1,799 40,610 2,423 2,870	1,799 40,226 2,443 2,888	1,817 40,068 2,432 2,965	1,841 39,895 2,481 2,984
353 354 356	Construction, mining, and material-handling equipment. Wetalworking machinery	10,454 2,379 3,967	10,333 2,436 3,948	9,997	9,834 2,539 3,935	9,764 2.647 3.876	9,213	8,789	8,469 2,624 3,603	8,446 2.760 3.561.	10,527 2,410 3,995	10,446 2,457 3,991	10,177 2,480 3,954	9,992 2,551 3,975	8,714 2,694 3,696	8,663 2,668 3,679	8,624 2,635 3,649	8,495 2,700 3,677
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					Season	Seasonally adjusted	ed						Not	seasonally	y adjusted			
			Monthly	, y				Quarterly						Monthly	ıly			
SIC	Industry											Last 4 m	months		Last	4 months	a year ago	
		May 1982P	Apr. 1982r	Mar. 1982	Feb. 1982	1981	1981	11 1981	1981	1980 1980	May 1982P	Apr., 1982r	Mar. 1982	Feb. 1982	May 1981	Apr. 1981	Mar. 1981	Feb. 1981
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
36 361,2	Electrical machinery	25,485	25,872	25,992	26,150	26,325	26,517	25,689	25,057	24,383	26,137	26,236	26.146	26,041	26,111	25,966	25,227	24,990
676	industrial apparatus		4,430	4,459	4,484	4,528	4,744	4,488	4,263	4,163	4,418	4,502	4,472	4,481	4,520	4,475	4,277	4,249
365	Radio and TV.	1,618	1,720	1,747	1,797	1,762	1,664	1,934	1,905	1,8/4	1,717	1,720	1,701	1,930	1.571	2,029	1,936	1,892
366	Communication equipment		9,033	9,024	9,021	8,911	8,859	8,886	8,774	8,630	9,039	9,088	9,121	9,019	8,935	9,013	8,878	8,901
37	Transportation equipment		39,716	39,142	39,211	39,175	39,424	38,628	38,111	36,810	39,587	39,877	39,504	39,598	38,478	4,826	38,457	4,603
371	Motor vehicles and parts		8,441	8,460	8,555	8,970	9,316	9,275	609'6	769'6	8,171	8,406	8.538	8,737	9,295	9,452	969'6	9,769
3731	Aircraft, missiles, and parts Shipbuilding and military		174,17	70,714	26,3/4	25,750	25,468	24,820	74,001	22,918	27,734	27,626	26.958	26,593	24,566	24,482	24,237	23,957
3795	Instruments and related	1,870	2,069	2,138	2,402	2,462	2,596	2,636	2,612	2,265	1,871	2,035	2,110	2,292	2.726	2,596	2,571	2,434
381-4	products	9,831	9,848	9,712	9,707	9,765	9,738	9,603	9,380	9,281	10,042	9,996	9,805	9,712	9,854	9,723	9,471	9,376
386	Photographic goods	2,327	2,305	2,347	2,346	2,375	2,342	2,247	2,259	2,243	2,420	2,381	2,382	2,330	2,358	2,358	2,291	2,230
24 25 39	All other durable goods	14,026	13,960	14,093	14,120	14,478	14,880	14,508	14,213	14,046	14,147	14,166	14,320	14,383		14,566	14,458	14,406
20	Nondurable goods industries Food and kindred products		20,984	21,025	21.082	21.101	21.826	21.862	22,237	22,325	20.043	20.562	20.755	21.311	21.276	21.610	21.977	£7£ 66
201	Meat products		2,250	2,263	2,150	2,013	2,067	2,267	2,272	2,271	2,246	2,313	2,281	2,183	2,256	2,368	2,289	2,310
208	Beverages		3,740	3,794	3,806	3,873	3,863	3,743	3,909	3,866	3,717	3,804	3,892	3,909	3,820	3,910	4,010	3,914
203-6,9	All other foods		11,747	11,754	11,821	11,866	12,481	12,456	12,476	12,428	10,921	11,137	11,295	11,821	11,672	11,765	11,984	12,386
21	Tobacco products		4,582	4,391	4,309	4,243	3,966	3,570	3,689	3,507	797'7	4,638	4,558	4,611	3,592	3,688	3,828	3,855
26	Paper and allied products		8.931	9.041	8,949	8.817	8,588	8,332	8,286	7.798	555,0	4 101	8, 983	8.840	8.475	8.404	8 230	9,04/
261-3	Pulp, paper, etc		3,398	3,380	3,378	3,301	3,123	3,018	2,972	2,794	3,519	3,445	3,402	3,344	3,050	3,018	2,992	2,968
265	Paperboard containers		2,362	2,367	2,352	2,385	2,337	2,255	2,188	1,973	2,413	2,393	2,350	2,314	2,252	2,240	2,171	2,101
28	Chemicals and allied products	20,099	20,531	20,543	20,513	20,438	20,363	20,218	19,488	18,489	20,114	20,752	20,776	20,902	20,011	19,691	3,067	19,573
1	plements		6,727	6,788	6,743	6,788	6,810	196,9	6,693	6,244	6,637	6,727	6,748	6,845	6,880	6,716	6,651	6.651
283, 4	Drugs, soap, and tolletries	6,119	6,152	6,228	6,248	6,041	5,867	5,839	5,819	5,612	6,223	6,230	6,184	6,167	5,934	5,802	5,777	5,706
30	Rubber and plastics products		9,436	94046	9,010	0,030	9,700	9, 996	7,885	0,240	7,444	8,129	2,642	2693	10,204	195'6	9,397	8,795
	n.e.c	5,520	5,585	2,497	5,487	5,508	5,703	5,634	5,538	5,279	5,608	5,696	5,632	5,573	5,706	99,766	5,673	5,623
23	All other nondurable goods	16.200	10 016	15 571	15 030	15 713	15 182	17, 817	17. 656	17, 252	030 71	16 262	15 2,60	10 000	15 653	1 6 0 60	17. 663	17. 933
31	YIMOSOTTO COLOR TO CO	17,400	076461	40,004	101101	17,147	704167	140.041	14,000	2001	750,01	/0/401	13,903		_	10001	14,000	14,233

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Eshipsents and new orders are the totals for the period and are adjusted for trading-day and calendar-mouth variations, unfilled orders and inventories are as of the end of the period and are not arrived to the contract series are regroupings of the separate industry categories as follows:

*The supplementary series are regroupings of the separate industry categories as follows:

*The supplementary series are regroupings of the separate industry categories and pottery, cuttery, handfools, and hardware, household duranting series are regroupings of the separate industries—floated formitter, kitchen articles and pottery, cuttery, pandfools, and hardware, household applicances, radio and IV, and clicitoric components)

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Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

			Pe	rcent change	es				Revisions ²	
	Mo	nth-to-mont	h	Avera	ge monthly	rates of ch	ange ¹	Year	Average	nonthly
Item and industry group	Apr May 1982	Mar Apr. 1982	Feb Mar. 1982	First quarter 1982	Fourth quarter 1981	Third quarter 1981	Jun. 1981 through May 1982	ago May 1981	May 1982 through April 1981	May 1977- 1981
Shipments:										
All manufacturing industries	+2.6	-0.8	-0.6	-0.5	-1.5	-0.6	-0.3	0.3	0.3	0.3
Durable goods industries	+2.7	-0.5	-0.4	-0.7	-2.0	-1.0	-0.5	0.3	0.4	0.3
Nondurable goods industries	+2.5	-1.0	-0.9	-0.4	-1.0	-0.1	-0.1	0.5	0.3	0.6
Inventories:										
All manufacturing industries	-1.0	-0.3	-0.5	-0.1	-0.1	+0.8	+0.1	0.0	0.1	0.1
New orders:								l.		
All manufacturing industries	+1.5	-2.3	+0.6	0.0	-1.8	-0.5	-0.5	0.4	0.3	0.4
Durable goods industries	+0.6	-3.6	+1.6	+0.3	-2.6	-0.8	-0.9	0.4	0.7	0.3
Nondurable goods industries	+2.4	-1.0	-0.5	-0.4	-1.0	-0.2	-0.1	0.5	0.4	0.7
Unfilled orders:										
Durable goods industries	-1.0	-0.4	+0.3	0.0	-0.8	+0.3	-0.2	0.0	0.1	0.0

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

		ary adjasec						
Industry group	Inv	entoriess	hipments ra	t10	Unf11		-shipments : backlog)	ratío ¹
Industry group	May 1982 ^p	April 1982 ^r	March 1982 ^r	Feb. 1982	May 1982 ^p	Apr11 1982 ^r	March 1982 ^r	Feb. 1982
All manufacturing industries	1.68	1.74	1.74	1.73	3,73	3.86	3.77	3.76
Durable goods industries. Stone, clay, and glass products Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment Instruments and related products.	2.25 1.74 2.79 1.99 2.67 2.19 2.09	2.32 1.79 2.75 2.06 2.76 2.25 2.23	2.31 1.78 2.87 2.05 2.57 2.28 2.29 2.34	2.31 1.79 2.59 2.14 2.56 2.31 2.38 2.37	4.51 0.53 2.47 2.91 4.54 4.66 10.86	4.68 0.53 2.43 3.09 4.80 4.74 11.92	4.60 0.54 2.57 3.15 4.51 4.68 11.52	4.56 0.59 2.43 3.25 4.62 4.61 11.67
Nondurable goods industries Food and kindred products Tobacco products Textile mill products Paper and allied products Chemicals and allied products Petroleum and coal products Rubber and plasties products, n.e.c.	1.11 0.94 3.89 1.57 1.46 1.33 0.48	1.16 0.96 3.81 1.61 1.41 1.39 0.58	1.16 0.95 3.86 1.52 1.39 1.35 0.66	1.15 0.94 3.62 1.60 1.37 1.35 0.64	0.57 (X) (X) (NA) (NA) (X) (X)	0.58 (x) (x) (xa) (xa) (xa) (x) (x)	0.56 (X) (X) (NA) (NA) (X) (X) (X)	0.58 (X) (X) (NA) (NA) (NA) (X) (X)

⁽NA) Not available.

^{*}Method of calculations of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

p_{Preliminary.}

Revised.

⁽X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

U.S. Department of Commerce BUREAU OF THE CENSUS Washington, D.C. 20233

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CURRENT INDUSTRIAL REPORTS

U.S. Department of Commerce BUREAU OF THE CENSUS



JUNE 1982

M3-1 (82)-6

For Wire Transmission 3:00 P.M. E.D.T. Monday, August 2, 1982

(All figures in text below are in seasonally adjusted current dollars.)

The January through June data presented in this report are consistent with the revised data for 1977-1981 released July 19, 1982, by the Department of Commerce, Bureau of the Census. These revisions, published in "Manufacturers' Shipments, Invnetories, and Orders: 1977-1981" (M3-1.11), reflect: benchmarking of the shipments and inventory data to the 1979 and 1980 Annual Survey of Manufactures; benchmarking defense shipments to the series MA-175, "Shipments to Federal Government Agencies"; recalculation of new orders estimates which are derived from the estimates of unfilled orders and shipments; and updating of seasonal adjustment factors.

New orders for manufactured goods in June declined \$0.5 billion or 0.3 percent to \$156.8 billion the Department of Commerce, Bureau of the Census reported today. This follows a 1.0 percent increase in May and a 1.0 percent decline in April. Shipments of manufactured products increased in June \$0.1 billion or 0.1 percent to \$160.8 billion following a 2.9 percent increase in May.

The backlog of unfilled orders for manufactured products declined \$4.0 billion or 1.3 percent in June to \$307.7 billion. This is the 11th consecutive decline in unfilled orders since the July 1981 peak of \$328.9 billion.

The book value of manufacturers' inventories decreased \$1.3 billion or 0.5 percent to \$275.1 billion. This is the sixth decline in the last 7 months and the lowest inventory level since the June 1981 level of \$274.6 billion. The inventory to shipments ratio has dropped from 1.81 in January 1982 to 1.71 in June.

New orders for durable goods in June declined \$1.5 billion or 1.9 percent to \$74.7 billion. This follows May and April declines of 1.0 percent and 1.2 percent, respectively. New orders for nonelectrical machinery declined \$1.5 billion or 10.1 percent to \$13.0 billion. Except for a 5.7 percent increase in April, new orders for nonelectrical machinery have been declining since last November at a 3.8 percent average monthly rate. New orders for the nondefense capital goods, which include most of the nonelectrical machinery industries, declined \$1.1 billion or 5.2 percent to \$19.3 billion. New orders for defense capital goods in June increased \$0.6 billion or 12.6 percent to \$5.4 billion following 3 months of declines.

New orders for manufacturers of nondurable goods (where for most industries shipments are considered equal to new orders) increased \$1.0 billion or 1.3 percent to \$82.1 billion in June. Increases were reported by all industries except for

the apparel and printing and publishing industries.

Shipments by producers of durable goods declines \$0.7 billion or 0.8 percent to \$78.7 billion. Shipments declined of \$0.9 billion in machinery products and \$0.3 billion in fabricated metal products in June were only partially offset by increases of \$0.4 billion in motor vehicle and parts and \$0.1 billion in the aircraft and parts sectors of the transportation equipment.

The orders backlog for durable goods manufacturers in June declined \$4.0 billion or 1.3 percent to \$298.4 billion. Over half of the June decline was in the nonelectrical machinery category. Reflecting declines in the machinery industry and the aircraft and parts industry, the order backlog for nondefense capital goods declined \$3.5 billion or 2.5 percent to \$134.4 billion.

Inventories held by producers of durable goods dropped \$0.5 billion or 0.3 percent to \$184.3 billion, the lowest level since July 1981. Except for increases in the transportation equipment and instruments and related products industries, the rest of the major industry groups showed little change or declined. The inventories held by producers of nondurable goods declined \$0.8 billion or 0.9 percent to \$90.8 billion. The largest decline was in the food products industry where inventories declined \$0.3 billion or 1.7 percent to \$19.8 billion...

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for July is scheduled for release on August 20, 1982, and the full report is scheduled for release on August 31, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Cansus, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Single copies of the M3-1.11, "Manufacturers' Shipments, Inventories, and orders, 1977-1981," can be purchased for \$5.00 from the Customer Services Section, Bureau of the Census, Washington, D.C. 20233. Checks should be made payable to Superintendent of Documents. A computer tape of the report, including data back to 1958, can be purchased by sending a check or money order for \$140 to the Data User Services Division, Customer Services Branch, Bureau of the Census, Washington, D.C. 20233. Checks for the computer tape should be made payable to Commerce-Census.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

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						(Millions of dollars)	(dollars)								
				Seasonally adjusted	adjusted					Me	Not seasonally adjusted	adjusted!			
SIC	Industry	June	May	April	March	Feb.r	Jan.	June 1982P	May 1982	April 1982 ^F	March 1982 ^r	Peb.	Jen. 1982	Year-to-date	date
		7067	7307	7067	7007									1987	1961
	TOTALS	160 799	160.693	156,114	157.517	158.142	155,023	168,399	161.541	158,058	165,832	160.220	164.431	958.481	1.013.307
	Manufacturing industries excluding transportation	143,177	143,514	140,168	141,712	142,990	141,176	149,358	143,537	141,169	148,470	144,697	131,791	859,022	906,709
	Manufacturing industries with unfilled orders	82,799	83,596	81,716	84,000	83,629	81,587	87,390	83,896	82,755	88,957	84,726	74,790	502,514	529,579
	Durable goods industries	78,715	79,383	77,136	78,124	976,77	75,551	84,125	80,485	19,101	83,776	78,829	68,605	474,921	513,799
	Durable goods with unfilled orders	65,708	66,611	688,889	66,339	66,272	64,627	69,937	66,981	65,883	70,820	67,195	28,860	399,676	427,759
	Nondurable goods industries	82,084	81,310	78,978	79,394	80,167	79,472	84,274	81,056	78,957	82,055	166,18	75,826	483,559	499,507
	Nondurable goods with unfilled	17,091	16,985	16,827	17,661	17,357	16,960	17,453	16,915	16,873	18,136	17,531	15,930	102,838	101,818
	MARKET CATEGORIES						_								
	Home goods and apparel	10,775	10,803	10,708	11,208	11,176	10,467	11,094	10,272	10,306	11,654	11,236	9,011	63,573	66,870
	Equipment and defense products, except automotive	24,258	25,056	23,997	25,623	25,566	24,185	26,224	25,126	24,125	27,538	25,669	21,622	150,304	152,628
	Construction materials, supplies, and intermediate products	11,578	12,058	11,446	11,738	11,400	11,398	12,582	12,392	11,799	618,11	10,767	9,555	416,89	78,481
	Other materials, supplies, and	115,11	70,940	69,383	68,862	70,261	71,115	74,026	71,678	70,788	72,906	72,707	69,052	431,157	469,317
	SUPPLEMENTARY SERIES?														
	Household durable goods indus- tries. Capital goods industries. Nondefense.	4,985 27,580 22,761 4,819	4,808 28,140 23,471 4,669	4,897 26,869 22,599 4,271	4,982 28,549 24,060 4,490	4,876 28,417 24,043 4,374	4,723 27,067 23,066 4,002	5,100 29,584 24,522 5,062	4,668 28,035 23,296 4,739	4,772 26,857 22,604 4,252	5,269 30,583 25,892 4,690	4,881 28,824 24,491 4,333	4,016 24,434 20,836 3,598	28,706 168,317 141,641 26,674	30,388 170,885 148,508 22,376
	INDUSTRY GROUPS AND INDUSTRIBS										,		garde.		
32 322 33 331	Durable goods industries: Stone, clay, and glass products. Glass containers Primary metals Blast furnaces, steel mills.	3,740 462 8,657 4,001	3,863 465 8,682 3,904	3,728 462 8,953 4,156	3,821 416 8,829 4,254	3,795 446 9,572 4,812	3,884 458 10,028 5,009	4,064 500 9,045 4,133	3,923 467 8,951 3,974	3,801 660 9,507 044,4	3,671 461 9,742 4,813	3,543 425 10,046 5,051	3,236 414 9,634 4,837	22,440 2,727 56,925 27,248	24,934 2,692 72,938 36,746
34	Nonferrous and other primary metals Fabricated metal products	3,797	3,894	3,952	3,664	3,876	4,137	3,972	4,034	4,165	3,974	4,088	3,969	24,202	29,336
341 35 351 352	Metal cans, barrels, and druss. Machinery, except electrical Engines and tumbines Farm machinery and equipment	949 15,330 1,144 984	875 15,899 1,209 1,108	915 15,432 1,296 1,009	912 16,570 1,245 1,011	952 16,587 1,233 1,167	979 15,939 1,291	1,054 16,646 1,267 1,090	912 15,810 1,205 1,162	901 15,602 1,287 1,149	930 18,032 1,456 1,220	16,964 1,323 1,227	815 14,455 1,257	5,529 97,509 7,795 6,786	5,655 102,395 8,189 8,933
353 354 356	Construction, mining, and material-handling equipment Metalworking machinery General industrial machinery	2,981 867 1,145	2,815 861 1,305	2,788 894 1,244	2,963 925 1,384	3,250	2,957 1,034 1,411	3,091	2,871 845 1,331	2,938 875	3,110	3,363	2,869	18,242 5,666 8,003	18,892 6,209 8,513
See f	See footnotes at end of table.														

Table 1. VALUE OF MANUFACTURES SHIPMENTS FOR LIGHERTHY CROUPS, MARKET CATHODRIES, AND SUPPLEMENTARY STRIES-CONTINUED

										1		I was not a			
				Sessonally	edjusted .						Not sessonally	Beatomally adjusted			
									1	-	March	Pab	Jan.	Year-to-date	date
SIC	Industry	June 1982	May 1982 ^r	Apr11 1982	March 1982 ^T	Feb., 1982	Jen. 1982 ^F	June 1982P	1982 ^F	1982 ^F	1982*	1982 ^F	1962	1982	1981
	INDUSTRY GROUPS AND INDUSTRIES Continued	,					,								
	Durable goods industries														
36	Electrical machinery Electrical transmission and	11,575	11,912	11,677	11,508	11,451	11,210	12,286	11,716	11,622	12,094	11,689	10,410	69,817	68,706
	distribution equipment and industrial apparatus	1,714	1,777	1,730	1,782	1,768	1,758	1,847	1,810	1,746	1,896	1,860	1,673	10,832	11,266
363	Radio and TV	704	27.	675	742	638	648	27.	609	574	715	643	537	3,855	6,237
366	Electronic components	2,456	2,513	2,468	2,367	2,341	2,359	2,527	3,845 2,488	2,533	2,455	2,444	2,260	14,707	20,277
371	Motor vehicles and parts	10,418	9,974	9,509	8,829	8,241	7,357	11,366	10,682	10,297	9,905	8,521	6,979	57,750	106,594
372,6	Aircraft, missiles, and parts. Shipbuilding and military	2,121	06646	27.6	16715	0100	4764	171'0	0,040	766 %	0,000	207.5	6,270	31,829	32,519
3795	Instruments and related products	3,950	3,988	3,825	3,942	3,933	3,754	4,224	3,936	3,758	1,029	3,832	3,379	5,621	5,728
381-4	Scientific and engineering	2,266	2,336	1,379	1,281	2,346	2,210	2,441	2,315	2,225	2,570	2,333	2,084	13,968	14,091
24 25 39	All other durable goods industries	8,002	7,764	7,826	7,884	7,929	7,659	8,346	7,901	7,943	8,187	7,703	6,489	46,569	50,649
20	Nondurable goods industries: Pood and kindred products	23,277	23,018	22,302	22,406	22,709	22,069	23,765	22,721	21,813	23,140	22,814	20,580	134,833	134,969
201	Meat products	6,418	3,112	3,201	3,085	3,152	2,984	3,384	6,321	3,215	5,743	2,795	5,653	18,146	34,400
207	Fats and oils.	1,515	1,406	1,416	1,432	1,433	1,441	1,454	1,341	1,399	1,531	1,519	1,431	8,675	9,603
21	Tobacco products	1,351	1,128	1,157	1,103	1,136	1,138	1,388	1,140	1,153	1,061	1,069	1,083	6,894	6,154
22	Paper and allied products	6,450	6,346	6,463	665'9	6,603	6,712	6,755	6,447	6,538	6,915	6,782	6,416	39,853	40,263
261-3	Pulp, paper, etc	1,539	2,619	1,465	2,856	2,812	2,831	2,842	2,721	2,765	2,999	2,878	2,667	16,872	17,344
264	All other paper products	2,204	2,267	2,306	2,217	2,281	2,379	2,329	2,249	2,269	2,313	2,348	2,334	13,842	13,440
281,6	Industrial chemicals,	7	200	769 7	4 4 6 6 6	764 7	A 612	010 7	7 669	702. 7	2 0 7 2	0000	2000	200,000	640,00
283.4	Drugs, soap, and tolletries	4,102	3,956	3,923	3,838	3,771	3,542	4,291	3,660	3,767	4,054	3,804	3,375	22,951	21,787
29	Petroleum and coal products	17,511	17,382	16,494	15,698	16,024	17,011	17,686	17,287	16,194	15,533	16,547	17,298	100,545	111,052
3	B.8.C.	3,797	3,569	3,500	3,414	3,520	3,646	3,934	3,592	3,648	3,607	3,669	3,375	21,825	23,726
27	All other nondurable goods industries	11,194	11,583	11,252	12,074	11,953	11,251	11,161	11,031	10,998	11,998	12,006	10,161	67,355	65,621

'Shipments and owe orders are the totals for the paried and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the separate industry categories as follows:

The supplementary sets are regressings of the separate industry categories as follows:

The undered an expressing and the separate industry categories and pottery; cutlery, handtools, and hardware; household and industries categories and clocks; and cloc

cipilingue personal goods. Comparable to the pravious producers' capital goods and the defense products (old action to execution of comparable to the pravious producers' capital goods and the defense products (decided mechanism).

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Table 2. VALUE OF MANUFACTURES. WEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

						(Millions o	(Millions of dollars)								
				Sessonally adjusted	adjusted					Ne	Not seasonaily	seasonally adjusted!			
SIC	Industry		1	Amend 3	Manual	N A P	u e l	Time	Max	Anna ?	March	Feb	na.	Year-to-date	-date
		June 1982P	1982r	1982F	1982 ^F	1982r	1982F	1982P	1982 ^F	1982r	1982 ^r	1982r	1982r	1982	1981
	TOTALS														
	All manufacturing industries	156,760	157,224	155,694	157,198	155,984	154,519	162,337	156,003	157,656	166,453	159,497	147,978	976,676	1,021,441
	Manufacturing industries excluding transportation	140,374	141,348	139,099	140,060	138,679	139,337	145,267	140,198	140,285	147,695	142,961	132,618	849,024	915,080
	Manufacturing industries with unfilled orders	78,760	80,327	81,296	83,681	81,471	81,083	81,328	78,358	82,354	89,578	84,003	78,336	493,957	537,712
	Durable goods industries	74,664	76,143	168,97	77,859	76,309	75,061	78,247	75,257	78,765	84,383	78,548	71,856	467,056	521,119
	Durable goods with unfilled orders	61,657	63,371	64,643	910,99	909,49	64,137	64,059	61,753	65,546	73,427	66,913	62,111	391,809	435,080
	Nondurable goods industries	82,096	81,081	78,803	79,339	79,676	79,458	84,090	80,746	78,892	82,069	80,949	76,122	482,868	500,320
	industries with unfilled orders.	17,103	16,756	16,653	17,607	16,866	16,946	17,269	16,605	16,808	18,151	17,089	16,225	102,147	102,630
	industries without unfilled orders	64,993	64,325	62,151	61,732	62,810	62,512	66,821	64,141	62,084	63,919	63,860	968'65	380,721	397,686
	MARKET CATEGORIES														
	Home goods and apparel	10,798	11,608	10,762	11,570 29,822	11,120	10,296	11,143	11,231	10,790	12,102	11,268	9,021	65,555	68,025 173,214
	Equipment and defense products, except automotive	23,064	22,074	25,890	25,349	26,161	26,587	23,798	21,137	25,530	27,823	26,671	25,625	150,584	155,729
	Construction materials, supplies, and intermediate products	11,258	11,592	11,003	12,006	11,108	10,856	12,179	12,116	11,388	12,235	10,532	9,251	101,70	79,180
	Other materials, supplies, and intermediate products	%60'69	70,347	67,937	68,167	68,162	69,031	70,992	69,833	965,69	72,441	71,496	68,734	422,992	472,280
	SUPPLEMENTARY SERIES 2														
	Household durable goods indus- tries Capital goods industries Nondefesse.	5,007 24,653 19,274 5,379	5,590 25,107 20,332 4,775	4,949 28,782 22,608 6,174	5,353 29,239 22,174 7,065	4,869 28,772 21,560 7,213	4,578 28,291 21,717 6,573	5,149 25,593 20,974 4,619	5,609 23,681 19,227 4,454	5,224 28,448 22,507 5,942	5,701 31,477 24,370 7,106	4,968 29,447 22,738 5,709	4,053 27,816 21,216 6,600	30,704 166,462 131,032 35,430	31,510 175,240 149,184 26,053
	INDUSTRY GROUPS AND INDUSTRIES														
32 33 331	Durable goods industries: Stone, clay, and glass Primary metals Blast furnaces, steel milis	3,761	3,877	3,642 8,137 3,583	3,700	3,703 8,241 3,741	3,689 9,163	4,049	3,937 8,160 3,584	3,755	3,774 8,871 4,184	3,489 9,433 4,614	3,146 9,346 4,480	22,150 52,499 24,168	24,988 73,079 37,737
34 34 35 351	Nonferrous and other primary metal products Fabricated metal products Machinery, except electrical Engines and turbines	3,931 9,359 12,950	3,741 9,405 14,408 1,338	3,828 8,989 15,262	3,440 9,819 14,438	3,767 9,052 14,506 1,357	3,866 8,777 15,120 1,045	3,919 9,850 14,411 933	3,768 9,563 13,781 1,291	3,884 9,155 15,391 930	3,911 10,616 15,729 1,204	4,021 9,030 16,013 1,401	4,033 8,152 14,231 1,028	23,536 56,366 89,556 6,787	29,060 64,353 104,436 7,970
353 354 356	Construction, mining, and material-handling equipment. Metalworking machinery General industrial machinery	2,519	2,258 649 1,266	1,857	2,393	2,594	2,663 735 1,314	2,542 834 994	2,087 619 1,223	2,139 601 1,085	2,553 672 1,305	2,906 783 1,402	2,678 684 1,355	14,905	21,130 5,378 9,079
0															

See footnotes at end of table.

TABLE 1. WALTE OF MANUFACTURES GRINGETS FOR INDUSTRY CROUPS, MARKEY CATEGORIES, AND SUPPLEMENTALY SERIES—CONCLASSED

						CHILITON	OX GOLLANS								
				Seasonslly	adjusted .						Not sessonally	seasonally adjusted,			
														Year-to-date	date
BIC	Industry	June 1982	May 1982 ^F	Apr.11 1962	March 1962	Feb. 1962	Jen. 1982 ^r	June 1982 ^p	1982 ^F	Apr11 1982 ^r	1982 ^r	Feb. 1982 ^F	1982 [†]	1962	1981
	INDUSTRY GROUPS AND INDUSTRIES														,
	Durable goods industries														
36	Electrical machinery	11,575	11,912	11,677	11,508	11,451	11,210	12,286	11,716	11,622	12,094	11,689	10,410	69,817	902'89
363	distribution equipment suu industrial apparatus Rousebold appliances	1,714	1,777	1,730	1,762	1,768	1,758	1,847	1,810	1,746	1,896	1,860	1,673	10,832	11,266
365	Radio and TV	3,651	3,806	3,833	3,648	3,742	3,605	3,947	3,846	3,914	3.931	3,732	3.313	3,855	4,237
367	Electronic components	2,456	2,513	2,468	2,367	2,341	2,359	2,527	2,488	2,533	2,455	2,444	2,260	14,707	14,342
371	Motor vehicles and parts	10,418	9,974	9,509	8,829	8,241	7,357	11,366	10,682	10,297	9,905	8,521	6,979	31,829	62,378
3731	Shipbuilding and military	938	986	006	1,010	1.018	811	977	1.067	882	1 029	962	726	5.621	2 438
38	Instruments and related products Scientific and engineering	3,950	3,988	3,825	3,942	3,933	3,754	4,224	3,936	3,758	4,171	3,832	3,379	23,300	23,728
386		1,648	1,408	1,379	1,281	1,358	1,334	1,539	1,382	1,310	1,343	1,273	1,116	7,961	7,950
24 39	All other durable goods industries	8,002	7,766	7,826	7,884	7,929	7,659	8,346	7,901	7,943	8,187	7,703	6,489	46,569	50,649
20	Nondurable goods industries: Food and kindred products	23,277	23,018	22,302	22,404	22,709	22,069	23,765	22,721	21,813	23,140	22,814	20,580	134,833	134,969
201 208	Beverages	2,956	3,112	3,201	3,005	3,152	2,984	3,384	3,236	3,215	3,027	2,795	2,489	18,146	34,400
207	Fats and oils	1,515	1,406	1,416	1,432	1,433	1,441	1,454	1,341	1,399	1,531	1,519	1,431	8,675	9,603
21	Tobacco products	1,351	1,128	1,157	1,103	1,136	1,138	1,388	1,140	1,153	1,061	1,069	1,083	6,894	6,154
26	Paper and allied products	6,450	6,346	6,463	6,599	6,603	6,712	6,755	6,447	6,538	6,915	6,782	6,416	39,853	40,263
261-3	Pulp, paper, etc	1,539	1,460	1,465	1,526	1,510	1,502	2,842	2,721	1,505	2,999	2,878	2,667	16,872	17,344
264	All other paper products	2,204	2,267	2,306	2,217	2,281	2,379	2,329	2,249	2,269	2,313	2,348	2,334	13,842	13,440
281,6	Industrial chemicals,	A 612	, Kan	A 425	A A 54	A 726	4 612	A 810	4 653	477.4	2007	600 4	2000	077 06	677'16
283,4	Drugs, soap, and tolletries	4,102	3,956	3,923	3,838	3,771	3,542	4,291	3,660	3,767	4,054	3,804	3,375	22,951	21,787
30	Petroleum and coal products	11,011	17,362	10,470	2,030	670°07	1/1011	17,086	17,287	10,1%	15,533	10,767	17,298	100,545	111,052
3	П.е.с.	3,797	3,569	3,500	3,414	3,520	3,646	3,934	3,592	3,648	3,607	3,669	3,375	21,825	23,724
27	All other nondurable goods industries	11,194	11,583	11,252	12,074	11,953	11,251	11,161	11,031	10,998	11,998	12,006	10,161	67,355	65,621

'Shipments and now orders are the totals for the pariod and are adjusted for trading-day and calendar-month variations: unfilled orders and inventories are as of the ead of the pariod and are not adjusted for trading-day and calendar-month variations.

Trading-day or calendar-month variation:

The expression of the separate industries interiors and portany; carliery, handtools, and hardware; household appliances; radio and TV; ophthalaic goods, watches, and clocks; and intelligence of persons promoted and persons of propertions promoted and persons of products decided to persons promoted and persons of products decided to the persons produced and persons of products decided to the persons promoted and persons produced and persons persons produced and persons produced and persons persons produced and persons persons persons produced and persons persons because of the persons produced and persons and the mondates and repeated and repeated and repeated and repeated and persons persons because of the persons persons because of the persons persons because of the persons persons because of the persons persons because of the persons persons because of the persons persons because of the persons persons because of the persons persons because of the persons because of the persons of pers

Table 2. VALUE OF MANUFACTURES NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

						Offillions of dollars)	of dollars)								
				Seasonally adjusted	adjusted					Mot	t seasonally adjusted	adjusted1			
SIC	Industry	Trans		Annetz	Hanne	4	Jan	June	1	April	Mary Ch.	40	Tel.	Year-to-date	-date
		1982P	1982 ^r	1962	1962 ^F	1982r	1982 ^r	1982P	1982	1982 ^r	1982F	1982F	1982 ^r	1982	1981
	TOTALS														
	All manufacturing industries	156,760	157,226	155,694	157,198	155,984	154,519	162,337	156,003	157,656	166,453	159,497	147,978	926,656	1,021,441
	Manufacturing industries excluding transportation	140,374	141,348	139,099	140,060	138,679	139,337	145,267	140,198	140,285	147,695	142,961	132,618	849,024	915,080
	Manufacturing industries with	78,760	80,327	81,296	83,681	81,471	81,083	81,328	78,358	82,354	89,578	84,003	78,336	493,957	537,712
	Durable gmods industries	74,664	76,143	76,891	77,859	76,309	75,061	78,247	15,257	78,765	84,383	78,548	71,856	467,056	521,119
	orders	61,657	63,371	64,643	920,99	64,605	64,137	64,059	61,753	65,546	71,427	66,913	62,111	391,809	435,080
	Nondurable goods industries	82,096	81,061	78,803	79,339	79,676	79,458	84,090	80,746	78,892	82,069	80,949	76,122	482,868	500,320
	Industries with unilited	17,103	16,756	16,653	17,607	16,866	16,946	17,269	16,605	16,808	18,151	17,089	16,225	102,147	102,630
	Industries without unfilled orders	64,993	64,325	62,151	61,732	62,810	62,512	66,821	64,141	62,084	616, 63	63,860	968'65	380,721	397,686
	MARKET CATEGORIES														
	Home goods and apparel	10,798	11,608	10,762	11,570	11,120	10,296	11,143	11,231	10,790	12,102	11,268	9,021	65,555	68,025 173,214
	Equipment and defense products, except automotive	23,064	22,074	25,890	25,349	26,161	26,587	23,798	21,137	25,530	27,823	26,671	25,625	150,584	155,729
	Construction materials, supplies, and intermediate products	11,258	11,592	11,003	12,006	11,106	10,856	12,179	12,116	11,388	12,235	10,532	9,251	67,701	79,180
	Other materials, supplies, and intermediate products	960.69	70,347	67,937	68,167	68,162	69,031	70,992	69,833	969'69	72,441	71,496	68,734	422,992	472,280
	SUPPLEMENTARY SERIES 2														
	Rousehold durable goods indus- ties tries Captal goods industries Nondefeuse.	5,007 24,653 19,274 5,379	5,590 25,107 20,332 4,775	4,949 28,782 22,608 6,174	5,353 29,239 22,174 7,065	4,869 28,772 21,560 7,213	4,578 28,291 21,717 6,573	5,149 25,593 20,974 4,619	5,609 23,681 19,227 4,454	5,224 28,448 22,507 5,942	5,701 31,477 24,370 7,106	4,968 29,447 22,738 5,709	4,053 27,816 21,216 6,600	30,704 166,462 131,032 35,430	31,510 175,240 149,184 26,053
	INDUSTRY GROUPS AND INDUSTRIES														
32 33 331	Durable goods industries: Stone, clay, and glass Primary metals	3,76k 8,588 3,789	3,877	3,642 6,137 3,563	3,700	3,703	3,689	4,049 8,265 3,499	3,937 8,160 3,584	3,755 8,424 3,807	3,774 8,871 4,184	3,489 9,433 4,614	3,146 9,346 4,480	22,150 52,499 24,168	24,988 73,079 37,737
35 351	Nonterrous and other primary metal products Fabricated metal products Machinery, except electrical. Engines and turbines.	3,931 9,359 12,950	3,741 9,405 14,408 1,338	3,828 6,969 15,262	3,440 9,819 14,438	3,767 9,052 14,506 1,357	3,866 8,777 15,120 1,045	3,919 9,850 14,411	3,768 9,563 13,781 1,291	3,864 9,155 15,391	3,911 10,616 15,729 1,204	4,021 9,030 16,013 1,401	4,033 8,152 14,231 1,028	23,536 56,366 89,556 6,787	29,060 64,353 104,436 7,970
354 354 356	Construction, mining, and material-handling equipment Metalvorking mechinery General industrial machinery	2,519	2,258	1,857 623	2,393	2,5%	2,663	2,542	2,087 619	2,139 601	2,553 672 1,305	2,906 783	2,678 684 1,355	14,905	21,130 5,378 9,079

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURES. MEN ORDERS FOR INDUSTRY CHOUSE, MARKET CATROGRIES, AND SUPPLEMENTARY SERIES—CONCLINED

						-	CHARLES ON COLUMN D.								
				Seasonally	Seasonally adjusted ²					2	Not seasonally adjusted!	y adjusted!			
719	Tracks								4			-		Year to	to date
		June 1982 ^p	May 1982 ^T	Apr41 1962 ^F	1962 ^r	Peb. 1982 ^r	Jan. 1982 ^r	June 1962 ^p	1982F	Apr 11 1982	1982F	reb.	Jan. 1962	1982	1981
	INDUSTRY GROUPS AND INDUSTRIES														
	Durable goods industries		ŧ												
36	Electrical machinery	11,734	11,888	12,508	12,782	11,391	11,842	12,132	11,532	12,471	13,502	12,202	11,588	73,427	72,357
	distribution equipment and industrial apparatus	1,417	1,738	1,490	1,703	1,601	1,740	1,491	1,739	1,630	1,838	1,795	1,753	10,246	11,901
363	Household appliances	1,013	1,050	1,029	1,040	456	1,013	1,119	1,035	1,026	1,096	1,000	816	3,919	7,095
366	Communication equipment	4,500	3,352	5,012	4,996	3,838	4,152	4,275	3,466	4,789	5,356	4,067	4,189	26,142	22,315
367	Electronic components	2,178	2,803	2,415	2,364	2,390	2,426	2,389	2,617	2,688	2,496	2,693	2,435	15,318	15,043
372,6	Aircraft, missiles, and	4,646	4,854	5,779	7,206	7,475	5,841	4,902	4,426	5,624	7,330	6,588	6,326	35,196	32,348
3731	Shipbuilding and military tank vehicles	876	711	1,092	476	1,108	1,310	697	439	1,238	858	912	1,306	5,222	6,336
38	Instruments and related	3,782	3,896	3,920	4,022	4,109	3,670	4,154	3,770	3,826	4,331	4,017	3,365	23,463	23,779
24 25 39	All other durable goods industries	8,104	8,340	7,838	8,364	8,001	7,618	8,316	8,709	8,371	8,802	7,828	999'9	48,692	51,747
Pr	D.														

Shippents and me orders are the totals for the period and are adjusted for trading-day and ealendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for Preliminary.

trading-day or saleader-month varietions.
The experience industry categories as follows:
The explorements yestes are supplementary series are applicantly as a supplementation of TV; opthalaic goods, watches, and clocks; and miscella-flousshold densities—flousshold to go of industries—Comparable to the previous producers' capital goods and the defense products (old series) categories.

Capital products—deachings, occept capital and sequences are machine about an exact part of the comparable to the previous products—deachings and repairing and requirent, command out on equipment, alteret parts, alteret parts, and out of the comparable to operate reporting and repairing and requirent, command out on equipment, alteret to alteret parts, and out of the comparable to operate report on detense out filed by large defense contractions to the following the parts of the comparable to those published annually in the Ma-173, displaced to recomment defended (the are comparable to those published annually in the Ma-173, displaced to the predict of the are comparable to those published annually in the Ma-173, displaced to the specified tabutries. 5

TABLE 3. VALUE OF MANUPACTURERS' UNPILLED ORDERS FOR INDUSTRY GROUPS, BRINCET CATEGORIES, AND SUPPLEMENTARY SERIES

						(Millions	(Millions of dollars)	()								
				Seasonally adjusted	adjusted						Not seas	seasonally adjusted	isted			
Ç,										Current 6 months	months			Last 3 mo	months (a year	r ago)
910	dno.18 A.18nnu.	June 1982P	May 1982	April 1982 ^r	Merch 1982	reb.	Jan. 1982 ^r	June 1982 ^p	May 1982	Apr11 1982	March 1982 ^r	Peb. 1982 ^F	Jan. 1982	June 1981	May 1981	Apr11 1981
	TOTALS															
	All manufacturing industries	307,715	311,746	315,218	315,639	315,957	318,114	307,819	313,885	319,418	319,817	319,197	319,921	326,927	329,207	329,250
	Manufacturing industries excluding transportation	191,075	193,870	196,041	197,110	198,760	203,071	192,152	196,245	199,579	200,462	201,238	202,974	212,411	212,794	212,506
	Durable goods industries	298,415	302,458	305,701	305,947	306,211	307,877	298,531	304,413	309,637	309,971	309,365	309,646	315,449	317,532	317,745
	Nondurable goods industries	9,300	9,288	9,518	9,692	9,746	10,237	9,288	9,472	9,782	9,847	9,832	10,275	11,478	11,675	11,505
	MARKET CATEGORIES															
	Home goods and apparel	5,239	5,215	4,382	4,429	3,998	4,029	699'5	5,621	6,693	4,330	3,839	3,798	766'9	4,683	4,776
	Equipment and defense products, except automotive	186,950	188,274	191,517	190,002	190,323	190,058	186,335	189,012	193,355	192,414	192,234	191,554	189,403	191,070	191,719
	Construction materials, supplies, and intermediate products	15,186	15,506	15,972	16,416	16,148	16,440	15,427	15,829	16,106	16,517	16,102	16,337	17,945	17,792	17,278
	Other materials, supplies, and intermediate products	100,340	102,751	103,346	104,793	105,488	107,588	100,388	103,423	105,264	106,556	107,022	108,233	114,582	115,662	115,477
	SUPPLEMENTARY SERIES 2															
	Household durable goods industries. Capital goods industries Nondefense.	4,144 218,844 134,369 84,475	4,122 221,766 137,852 83,914	3,340 224,799 140,991 83,808	3,288 222,888 140,982 81,905	2,916 222,197 142,868 79,329	2,924 221,841 145,351 76,490	4,618 218,213 134,622 83,591	4,570 222,209 138,174 84,035	3,626 226,562 142,240 84,321	3,174 224,967 142,337 82,631	2,742 224,074 143,859 80,215	2,654 223,451 145,612 77,840	3,915 221,990 154,899 67,091	3,617 223,409 156,331 67,078	3,688 223,798 157,524 66,274
	INDUSTRY GROUPS AND INDUSTRIES															
32 33 331	Durable goods industries: Stone, clay, and glass. Primary metals. Blasf Turances, sees alls.	1,783 22,078 12,917	1,762 22,147 13,129	1,749 22,378 13,106	1,835 23,195 13,679	1,954 24,427 14,502	2,046 25,759	1,825 22,083 13,034	1,839 22,862 13,668	1,825 23,654 14,058	1,871 24,737 14,691	1,967 25,608 15,320	2,021 26,221 15,757	2,351 29,597 17,888	2,341 30,612 18,348	2,325 30,959 18,688
333-6, 9 34 35 351	Nondercous and other primary metal products Pabricated metal products Machinery, except electrical Engines and turbines.	6,553 26,406 63,557 15,642	6,419 26,883 65,934 15,867	6,572 27,574 67,425 15,739	6,697 28,334 67,595 16,039	6,921 28,281 69,727 16,289	7,030 28,785 71,807 16,165	6,527 26,443 63,931 15,492	6,579 27,065 66,169 15,827	6,846 27,745 68,198 15,741	7,127 28,568 68,409 16,098	7,189 28,270 70,711 16,351	7,256 28,769 71,663 16,272	8,500 30,629 75,216 17,509	8,903 30,583 75,159 17,632	8,853 30,205 75,439 17,802
353 354 356	Construction, mining, and material-handling equipment Metalworking machineryGeneral industrial machinery	3,341	7,813	8,370 3,666 6,260	9,301	9,870	10,526	7,373	3,447	8,707 3,672 6,342	9,506	10,063	10,520 4,570 6,716	10,989	10,563	10,507 6,872 6,655
See fo	See footnotes at end of table.															

Table 3. VALUE OF MANUFACTURERS' UPFILLED ORDING FOR INDUSTRY GROUPS, MARKET CATRODRIES, AND SUPPLEMENTARY SERIES -- CONTINUED

						-	Commercial of the second									
				Seasonally adjusted	petunipe						Not sesa	Not sessonally adjusted	isted			
SIC	Industry group	June	Man	Annel 1	Mayorh	4	, L			Current 6 months	nonths			Last 3 mo	Last 3 months (a year ago)	ir ago)
		1982P	1982 ^r	1982	1982	1982r	1982F	June 1982 ^p	May 1982	Apr11 1982	March 1982	Peb. 1982 ^k	Jan r 1982	June 1981	May 1981	Apr11 1981
	INDUSTRY GROUP AND INDUSTRIES—Centianed				- 70											
	Durable goods industries-									-						
361,2	Electrical machinery	54,747	54,588	54,613	53,784	52,510	52,570	54,843	666'95	55,180	54,330	52,922	52,408	50,911	50,257	49,983
	distribution equipment and industrial apparatus	7,866	8,163	8,202	8,442	8,521	8,688	7,926	8,282	8,352	8,469	8,526	8,591	8,913	8,992	8,864
363	Household appliances	302	332	319	323	306	351	325	343	329	332	318	337	094	644	077
366	Communication equipment	33,262	32,413	32,868	31,690	.30,340	30,244	33.043	32,715	33.096	32.220	30.796	30.460	28.059	27.790	27.613
367	Electronic components	11,810	12,088	11,798	11,852	11,855	11,805	12,035	12,173	12,043	11,887	11,846	11,597	11,887	11,730	11,649
37	Transportation equipment	116,640	117,876	119,178	118,529	117,196	115,043	115,667	117,640	119,839	119,355	117,959	116,947	114,516	116,413	116,744
3723	Shishudiding and military tank	91,339	570176	95,549	37,483	90,014	96,123	650,16	677,276	93,490	92,856	151,12	89,745	87,112	88,192	88,112
3795	vehicles	19,350	19,413	19,695	19,503	20,037	19,947	19,045	19,555	20,162	19,805	19,976	20,026	19,494	19,996	20,303
38	Instruments and related products	7,200	7,367	7,458	7,362	7,283	7,106	7,275	7,345	7,511	7,443	7,283	1,098	7,110	086'9	6,963
38	All other durable goods industries.	900.9	5,901	5,325	5,313	4,832	4,760	997'9	767'9	5,685	5,258	4,643	4,519	5,119	5,187	
						1						-				

Preliatmery.

'Shipments and new coders are the totals for the parted and are adjusted for trading-day and colandar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calculated and potential and and attitude day and attitude and attitude and attitude and and attitude and attitu

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Table 4. VALUE OF MANUMCTURES INVESTORIES FOR INDUSTRY CROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

						(M11110	(Millions of dollars)	rs)								
				Seasonally adjusted	adjusted						Not seas	$seasonally adjusted^1$	sted1			
710	CHICAGO CA PRINCIP									Current 6	ths			Last 3 mo	months (a year ago)	. ago)
210	17518 61100DD11	June 1982 ^p	1982	April.	1982 1982	1982	Jan. 1982	June 1982P	May 1982	Apr11 1982	March 1982	Peb.	Jan. 1982 ^r	June 1981	May 1981	Apr11 1981
	TOTALS															
	All manufacturing industries	275,118	276,449	278,985	280,065	281,688	281,155	276,285	279,391	282,017	282,050	283,594	281,926	275,626	276,959	274,918
	Manufacturing industries ex- cluding transportation	236,150	237,748	240,242	241,915	243,494	243,033	237,738	240,698	243,064	243,463	264,941	243,847	238,371	239,550	237,466
	Manufacturing industries with unfilled orders	190,594	191,345	192,468	192,527	193,690	193,360	192,447	194,175	194,771	190,461	194,620	192,721	187,599	187,273	186,311
	Durable goods industries	184,112	184,870	185,916	186,063	187,121	187,054	185,481	187,287	188,253	188,026	188,756	187,031	182,247	182,384	181,582
	Durable goods with unfilled orders	169,536	170,176	171,189	171,059	171,959	171,756	170,712	172,341	173,035	172,482	173,046	171,539	166,137	165,947	165,134
	Nondurable goods industries	90,796	91,579	93,070	94,002	94,567	94,100	90,804	92,104	93,764	94,024	94,838	94,895	93,378	94,575	93,337
	Nondurable goods with unfilled orders	21,058	21,169	21,279	21,467	21,731	21,604	21,735	21,834	21,736	21,579	21,574	21,182	21,462	21,326	21,177
	MARKET CATEGORIES															
	Home goods and apparel	21,545	21,779	21,948	22,041	22,631	33,309	22,693	22,775	22,436	33,424	33,808	33,939	31,890	32,333	21,880
	Equipment and defense products, except automotive	77,715	77,506	77,708	76,716	76,744	76,265	78,032	78,267	78,430	77,482	77,207	76,046	73,511	73,429	72,977
	Construction materials, supplies, and intermediate products	20,632	20,639	20,723	21,078	21,338	21,729	20,883	21,076	21,301	21,694	21,864	21,768	22,047	21,979	21,762
	Other materials, and supplies, and intermediate products	111,206	112,068	113,741	115,379	115,964	115,518	111,874	113,557	115,199	115,848	116,544	116,041	113,863	114,522	113,594
	SUPPLEMENTARY SERIES ²															
	Household durable goods industries. Capital goods industries. Wondsfense. Defense.	10,752 87,421 73,212 14,209	10,692 87,644 73,615 14,029	10,856 87,752 73,806 13,946	10,896 86,795 72,937 13,857	11,120 86,974 73,376 13,598	11,196 86,302 72,968 13,334	11,093 87,900 73,518 14,382	11,119 88,594 74,403 14,191	11,080 88,587 74,582 14,005	10,981 87,460 73,584 13,877	11,121 87,226 73,692 13,533	11,000 85,862 72,713 13,148	10,881 83,445 71,139 12,306	10,996 83,171 71,268 11,903	10,805 82,683 71,000 11,683
	INDUSTRY GROUPS AND INDUSTRIES										`					
32 322 33	Durable goods industries: Stone, clay, and glass products Glass containers. Primary metals. Blast furnaces, steel mills	6,409 682 24,582 .12,542	6,429 696 25,063 12,867	6,479 702 25,403 13,075	6,544 719 26,056 13,441	6,629 672 26,070 13,128	6,582 667 25,974 13,120	6,534 696 24,610 12,492	6,676 714 25,181 12,764	6,723 716 25,499 12,825	6,768 719 26,005 13,095	6,832 681 26,398 13,314	6,602 648 26,456 13,525	6,468 645 24,163 12,180	6,518 658 24,036 12,123	6,417 646 24,076 12,116
333-6,	Rolferrous and other primary metals.	10,696	10,834	10,907	11,145	11,354 20,142	11,281 20,339	19,835	10,997	11,179	11,382 20,263	20,327	11,370 20,234	19,993	20,013	10,409 20,008 1,772
35 351 352	Machinery, except electrical	44,071 2,523 2,765	2,579	2,602	44,134 2,587 2,808	44,414 2,606 2,850	44,237	44,407	45,015 2,608 2,832	44,962 2,641 2,904	2,969	2,636	2,608	42,114 2,535 2,890	42,092 2,500 2,970	41,702 2,520 2,989
353 354 356	Construction, mining, and material-handling equipment Metalworking machinery General industrial machinery	11,140 2,415 4,091	11,391 2,480 4,155	11,301 2,539 4,142	10,950 2,588 4,098	10,794 2,640 4,114	10,585	11,207 2,427 4,136	11,471 2,510 4,176	11,387 2,554 4,181	11,094 2,578 4,142	10,892 2,652 4,164	10,653 2,619 4,163	9,600	9,499	9,444 2,783 3,855
Con 6	alder to have to maderate and															

See footnotes at end of table.

Table 4. WALUE OF MANUFACTURERS' INVESTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

						1	20 000	0.00								
				Seasonally	ad justed						Not ses	seasonally adjusted	us ted1			
STC	Industre eroun					i				Current 6	months			Last 3 mc	months (a year	r agol
		June 1982 ^p	1982 ^r	Apr11 1982	March 1982	1982	Jan. 1982	June 1982	Mayr 1982	Apr 11 1982	March 1982 ^r	Feb r	Jan. 1982r	June 1981	1981	Apr11 1981
	INDUSTRY GROUPS AND INDUSTRIES															
	Durable goods inqustries-Continued															
36	Electric machinery	27,051	27,024	27,365	27,526	27,697	27,784	27,577	27,733	27,820	27,737	27,622	27,421	27,763	27.678	27 532
		4.382	4.361	607.7	4.474	4,471	867'7	4,436	697.7	7,485	4,458	0,470	454.4	4,515	4,506	657 7
363	Household appliances	1,910	1,853	1,868	1,895	1,924	1,962	2,008	2,010	1,991	1,950	1,941	1.932	2.050	2 085	2,040
365	Communication equipment	1,708	1,676	9,407	9,410	9,424	9,287	9,373	9,430	9,486	9,522	9 415	9.256	9 280	9 311	9 391
367	Electronic components	5,548	995'5	5,635	5,680	5,669	5,729	5,654	5,656	5,694	5.717	5,665	5,642	5.818	5 730	5,764
371	Transportation equipment	38,968	38,701	8,640	8,673	8,795	8,957	8,357	8,428	8,657	8,790	9,000	9,113	9,310	9.567	671 6
372,6	Aircraft, missiles, and parts	26,798	26,599	26,432	25,681	25,356	25,010	26,696	26,671	26,594	25,936	25,574	24.818	23,753	23.559	23 484
3731	Shipbuilding and military tank	1.691	1.702	1,833	1.909	2,107	2,160	1,702	1,709	1,825	1,894	2.032	2.076	2.269	2 313	2 227
38	Instruments and related products	9,484	6,303	9,516	9,399	9,513	9,420	9,688	9,539	9,687	9,508	9,510	9,366	9.575	799.6	0 540
381-4	Scientific and engineering	6,684	6,509	2,357	2,405	2,515	2,460	2,372	2,392	2,455	2,456	2,497	2,418	2,487	2.527	2.527
24 39	All other durable goods industries	14,178	14,239	14,246	14,404	14.462	14,597	14,283	14,386	14,462	14,622	14,706	14,628	14.917	14.974	14,855
	Nondurable goods industries:															
20	Pood and kindred products	19,796	20,140	20,377	20,405	1.833	20,481	18,771	19,344	19,919	20,115	1.865	21,121	20.184	20 663	20 949
208	Beverages	3,523	3,525	3,563	3,619	3,648	3,653	3,431	3,550	3,639	3,723	3,740	3,713	3.523	3.683	3.769
203-6.9	All other foods	1,406	11,606	11,825	11,778	11,893	11,772	10,594	10,793	11,175	11,334	11,862	12,219	11,490	11.653	11.723
21	Tobacco products	4,697	4,812	4,812	6 587	4,514	6.761	644,4	4,643	4.824	6,741	6.883	6.812	7.064	7.059	3.836
26	Paper and allied products	8,768	8,810	8,842	8,921	8,850	8,675	9,017	9,080	9,045	8,928	8,785	8,531	8.472	80,408	8.336
261-3	Pulp, paper, etc	3,588	2,298	2,301	2,312	2,291	2,276	3,647	2,662	2,353	2,311	2,276	2,251	2,273	2.214	2 202
264	All other paper containers	2,870	2,922	2,980	3.070	3,025	2,909	2,972	3,053	3,083	3,052	21.846	21.742	20.780	20,998	20.552
281,6	Industrial chemicals, except	100														1
	pigments	6,531	6,532	6,676	6,763	6,755	6.756	6,486	6,63/	6,744	6,765	6,862	6.910	6.817	6.874	6 260
283,4	Drugs, soap, and tolletries	890"6	090 6	9,675	10,531	10,615	10.373	9,063	9,010	9,518	10,113	10,196	10,415	11.412	11,920	11,212
30	Rubber and plastic products,	6000	6,115	6,165	6,153	6,172	6,120	650°9	6,262	907'9	6,335	6.268	6.212	6.360	6.414	6.482
23	All other nondurable goods	100	35 355	16 323	15 406	15 803	15 77%	16.021	1 5 983	15 596	15 300	15 391	15 241	15 567	167 51	16 916
31	industries	120,021	042 (C1	636,64	20, 400	200,00	200	170 07	2001	200	20,100					

Ppreliminary.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regressed to the separate industry categories as follows:

The supplementary series are regressed thankture; kitchem articles and pottery; cutlery, handtools, and hardware; household durable goods industries—adjusted funziture; kitchem articles and pottery; cutlery, cutlery; cutlery.

miscellancous personal goods, the previous producers' capital goods and the defease products (old series) categories.

Nondefease products—seminary, except electrical (excluding farm machinery and equipment, and machine about), electrical machinery (excluding household appliances, radio and 7%, and electronic components).

Nondefease products—seminary, except and reparting and restricting edulyment, communication equipment, aircraft and aircraft parts, and shipbuilding. Defease products—seminary or separate reports and defease work tiled by large defease contractors in the following industries: Ordennes, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments to Federal Coverment Agencies (forestly Shipments of Defease-Orlented Industries), for the specified industries.

Offillions of dollars)

			Seasonally	ad justed						Not seal	seasonally adjusted	us ted 1			
									Current 6	months			Last 3 m	months (a year	IT agol
As a report	June 1982	May 1982	Apr 11	March 1982	Feb y	Jan'r 1982	June 1982	Mayr 1982	April 1982	March 1982	Feb I 1982	Jan 1982 ^r	June 1981	May 1981	Apr 11
TOTALS All manufacturing industries	275,118	276,449	278,985	280,065	281 68,8	281,155	276,285	279,391	282.017	282,050	283,594	281,926	275.626	276,959	274.918
Durable goods industries	184,322	184,870	185.916	186.063	187,121	187,354	185,481	187,287	188,253	188.026	188,756	187,031	182.247	182,384	181.582
Stone, clay, and glass products.	24,582	25,063	25,403	26,056	26.070	25.974	24,610	25,181	25,499	26.005	26.398	26,456		24.036	24 076
Nonelectrical machinery	44,071	19,664	44,449	44.134	44,414	44,233	19,835	20,064	44. 962	44,537	44, 709	46,244		42.092	41 702
Electrical machinery	38,968	38,701	27,365	38 150	38,194	36 122	38,547	27,733	38,953	38.587	38,653	38,079		37,409	37,452
Instruments and related products	9,484	9,303	9,516	9,399	9,513	14 597	9,688	9,539	9,687	9,508	9,510	9.366		9.664	9.540
Nondurable goods industries	90,796	91,579	93.070	94,002	94,567	94 100	90,804	901,10	93,764	94.024	94.838	94.895		94,575	93.337
Chemicals and silled products	9,068	9,060	9.675	10.531	10,615	10 373	9,063	9,010	9.518	10.113	10.196	10,415	11,412	11.920	11,212
All other nondurable goods industries	54,680	55,509	55.867	55.891	56,362	56.186	54,751	55,676	56,113	55,852	56.529	56.526		55,357	95,090
All manufacturing industries	92,494	93,168	94,433	94,214	968.86	96.145	92,511	93,448	156.96	95,078	96,144	96,605	94,181	93.998	64,479
Durable goods industries	\$5,602	55,996	56.947	56.897	57,999	58.184	55,668	56,151	\$6.964	57,134	58,034	58,272	57.089	56,549	56.771
Stone. clay, and glass products	2,220	2,247	8.725	2,332	8,708	8,653	2,228	2,267	2,322	8.593	2,365	8,887	2.362	8,025	2,255
Pabricated metals	7,235	12,673	11,695	11,720	12,046	11.972	7,281	11,704	11.779	11,739	11,989	11,909	11,315	7,563	7,629
Electrical machinery	7,485	7,664	10,181	7,902	8,062	10,404	7,659	1,852	8,100	7,901	10.533	10.387	8.321	10.287	8,203
Instruments and related products	2,869	2,741	3,020	2,982	3,025	3.052	2,908	2,767	3,029	3.014	3,023	3.040	3,059	3.084	3.026
Mondurable goods industries	36,892	37,172	37.486	37,317	37,899	37.961	36,843	37,297	37,987	37.944	38,110	38,333	37.092	37.449	37.708
Chemicals and allied products	2,410	2,485	2,525	2,452	2,644	2,622	2,445	2,507	2,532	2,466	2,510	2,544	2,862	8,162	2,743
Rubber and plastics products, n.e.c	24,316	2,083	2,130	2,184	2,294	2,348	2,045	24,499	2,166	24,960	25,052	2,361	23,617	2,405	24,346
WORK IN PROCESS															
All manufacturing industries	96,706	96,722	97,163	97,358	97,889	98,170	96,450	97,495	98,013	98,074	98,484	98,016	96,283	97,763	96.867
Durable goods industries	81,266	81,284	81,562	81.729	82,097	82,211	81,074	81,839	82,285	82,471	82.791	82,129	80.201	81,026	80,483
Primary metals.	9,816	10,109	10,325	10,678	10,873	10.946	9,886	10,224	10,402	10.631	10,905	11.040	9.819	9,915	9,681
Monelectrical machinery	18,292	18,246	18,501	18,423	18,593	18.734	18,175	18,439	18.601	18,565	18.800	18,927	18,415	18,777	18.492
Transportation equipment	24,116	23,945	23,769	23,404	23,217	23,133	23,679	23,755	23.862	23,678	23,507	23,044	22,644	22,959	22,955
Instruments and related products	3,125	3,186	3,218	3,203	3,191	3,285	3,137	3,168	3,202	3,215	3,215	3,287	3.370	3,423	3.379
Mondurable goods industries	3,598	15,438	3,506	15,629	15.792	15.959	15,376	15,656	15,728	15,603	15,693	15.887	16.082	16.737	16,384
Petroleum and coel products	1,258	2,516	1,262	1,216	1,182	1,146	1,226	1,264	1,261	1,224	1,196	1,190	1,133	1,154	3,191
PINISHED GOODS		17160			3		1000		1					2	
All sampfacturing industries	85,918	86,559	87,391	88,492	87,903	86,838	87,324	88,448	89,053	88,899	88,968	87,304	85,162	861.28	83.572
Durable goods industries	47,454	47,590	47,408	3,255	3 266	3 284	3 348	49,297	3,403	3.397	3, 423	3.282	3.149	3.257	3.163
Primary metals	6,251	6,354	6,353	6,684	6,489	6,375	6,302	6,534	6,660	6,781	6,731	6,529	6.089	960.9	6,140
Nonelectrical machinery.	14,381	14,528	14,253	13,991	13,775	13,531	14,805	14,872	14,582	14,233	13,920	13,408	12.384	12,100	11.958
	4,549	4,622	4,793	4,577	4,567	4,585	4,576	4,692	4,810	4,598	4,613	4,648	4,193	4,163	4.172
Instruments and related products	2,431	2,408	5,389	5,491	5,451	5,499	5,695	5,721	5,710	5,718	5,636	5,498	5,743	5.732	5.650
Nondurable goods industries	38,464	38,969	39,983	41,057	40.877	40.179	38,585	39,151	670.07	40,478	41,036	40,674	40,204	40,389	39,244
	4,138	4,059	4,511	5,279	5,148	4,942	4,082	3,936	2,977	2,930	4,930	5,099	5,575	5,718	5.278
All other mondurable goods industries	22,300	22,823	22,946	23.207	23,349	23,060	22,484	22,929	22,894	22,751	23.196	23,059	22,685	22.619	22.181

Preliminary.

ightparents and our orders are the totals for the period and are adjunted for trading-day and calendar-month variations; unfilled orders and investories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

			Month-t	o-month				Revisions	
							Year	Average	monthly
Item and industry group	May- June 1982	April- May 1982	March- April 1982	February- March 1982	January- Peb. 1982	Dec. 1981- Jan. 1982	June 1981	June 1981 through May 1982	June 1977-1981
Shipments:									
All manufacturing industries	+0.1	+2.9	-0.9	-0.4	+2.0	-2.9	0.4	0.3	0.5
Durable goods industries	-0.8	+2.9	-1.3	+0.2	+3.2	-4.5	0.3	0.4	0.2
Nondurable goods industries	+1.0	+3.0	-0.5	-1.0	+0.9	-1.3	0.3	0.3	0.5
Inventories:									
All manufacturing industries	-0.5	-0.9	-0.4	-0.6	+0.2	-0.7	0.2	0.1	1.8
New orders:			1						
All manufacturing industries	-0.3	+1.0	-1.0	+0.8	+0.9	-1.4	0.0	0.3	0.3
Durable goods industries	-1,9	-1.0	-1.2	+2.0	+1.7	-1.8	0.2	0.7	0.3
Nondurable goods industries	+1.3	+2.9	-0.7	0.4	+0.3	-1.0	0.3	0.3	0.5
Unfilled orders: Durable goods industries	-1.3	-1.1	-0.1	-0.1	-0.5	-0.2	0.2	0.1	0.1

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

		Invent	oriess	hipments	ratio		1		orders-			1
Industry group	Jun. 1982 ^p	May 1982	Apr. 1982	Mar. 1982	Feb. 1982	Jan. 1982	Jun 1982 ^p	May 1982	Apr. 1982	Mar. 1982	Feb. 1982	Jan. 1982
All manufacturing industries	1.71	1.72	1.79	1.78	1.78	1.81	3.72	3.73	3.86	3.76	3.78	3.90
Durable goods industries. Stone, clay, and glass products. Primary metals. Fabricated metals.	2.34 1.71 2.84 1.99	2.33 1.66 2.89 1.95	2.41 1.74 2.84 2.02	2.38 1.71 2.95 2.03	2.40 1.75 2.72 2.11	2.48 1.70 2.59 2.20	4.54 0.54 2.55 2.97	4.54 0.52 2.55 2.92	4.71 0.54 2.50 3.12	4.61 0.54 2.63 3.20	4.62 0.58 2.55 3.29	4.76 0.60 2.57 3.49
Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products.	2.87 2.34 2.21 2.40	2.80 2.27 2.25 2.33	2.88 2.34 2.43 2.49	2.66 2.39 2.41 2.38	2.68 2.42 2.52 2.42	2.78 2.48 2.75 2.51	4.43 4.73 10,91 1.82	4.46 4.58 11.23 1.85	4.68 4.68 12.41 1.95	4.34 4.67 11.88 1.87	4.52 4.59 12.20 1.85	4.80 4.69 13.13 1.89
Nondurable goods industries Food and kindred products. Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.c.	1.11 0.85 3.48 1.49 1.36 1.48 0.52 1.58	1.13 0.87 4.27 1.57 1.39 1.48 0.52	1.18 0.91 4.16 1.61 1.37 1.55 0.59 1.76	1.18 0.91 4.14 1.55 1.35 1.55 0.67 1.80	1.18 0.90 3.97 1.62 1.34 1.52 0.66 1.75	1.18 0.93 3.95 1.73 1.29 1.56 0.61 1.68	0.54 (X) (X) (NA) (NA) (X) (X) (X)	0.55 (X) (X) (NA) (NA) (X) (X)	0.57 (X) (X) (NA) (NA) (X) (X)	0.55 (X) (X) (NA) (NA) (X) (X)	0.56 (X) (X) (NA) (NA) (X) (X)	0.60 (X) (X) (NA) (NA) (X) (X)

⁽NA) Not available. Preliminary. (X) Not applicable.

¹The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences to the durable goods industries are shown in the advance report for the month.

¹Excludes the following industries with no unfilled orders: wood and lumber products; glass containers; metal cans, barrels, and drums; farm middless and equipment must be assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; and rubber and plastics products, and rubber and plastics products, nece.

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BUREAU OF THE CENSUS

Manufacturers' Shipments, Inventories, and Orders

JULY 1982

M3-1(82)-7 FOR WIRE TRANSMISSION 3:30 P.M. EDT, TUESDAY, AUGUST 31, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in July increased \$3.1 billion or 2.0 percent from June to \$160.2 billion. Although this is the largest monthly increase since December 1980, the value of new orders was 7 percent below the July 1981 peak of \$172.1 billion. Shipments of manufactured goods increased \$1.0 billion or 0.6 percent in July to \$162.5 billion, following increases in May and June of 3.0 percent and 0.4 percent, respectively.

The backlog of manufacturers' orders was valued at \$303.7 billion at the end of July, down \$2.4 billion or 0.8 percent from June. This is the 12th consecutive monthly decline in backlog, 7.7 percent below the peak in July 1981 of \$328.9 billion. The book value of manufacturers' inventories at the end of July was \$275.2 billion, showing little change from June. Prior to this, inventories had declined 6 of the last 7 months.

New orders for the durable goods sector were up \$3.0 billion or 4.0 percent in July to \$77.5 billion, revised upward from the earlier reported 3.2 percent increase. Most of the major industries contributed to the July increase. New orders for transportation equipment were up \$1.2 billion or 7.5 percent to \$17.6 billion, with increases in both the aircraft and motor vehicle industries. New orders for electrical machinery increased \$0.7 billion or 6.0 percent to \$12.4 billion, while orders for nonelectrical machinery increased \$0.4 billion or 3.1 percent to \$13.4 billion. New orders for primary metals increased \$0.1 billion or 1.4 percent to \$8.7 billion. Following a steady decline in this series from July 1981 to March 1982, orders for primary metals have now increased 4 consecutive months. The steel industry accounted for this month's increase.

New orders for nondefense capital goods increased \$1.5 billion or 7.7 percent to \$20.8 billion, following declines in May of 10.1 percent and June of 5.2 percent. New orders for defense capital goods were down \$0.8 billion or 14.8 percent to \$4.6 billion, following a 13.9 percent increase last month.

Shipments of durable goods in July increased \$0.8 billion or 1.1 percent to \$79.7 billion. The largest increases were in the electrical machinery and transportation equipment categories. Electrical machinery shipments were up \$0.5 billion or 3.9

percent to \$12.1 billion with most of the increase occurring in the communication equipment industry. Shipments of transportation equipment were up \$0.4 billion or 2.4 percent to \$18.0 billion. An increase in the motor vehicle and parts category of \$0.6 billion or 6.1 percent to \$11.1 billion was partially offset by a decline in the aircraft and parts category of \$0.3 billion or 5.7 percent to \$5.4 billion.

Shipments of nondurable goods in July increased \$0.2 billion or 0.2 percent to \$82.8 billion. Shipments by the tobacco products industry have shown unusual fluctuation the last 2 months with a July decline of 24 percent following a June increase of 20 percent. Excluding the tobacco category, shipments of nondurable goods increased 0.6 percent with the largest increases occurring in the foods, apparel, and paper products industries.

The decline in the backlog of orders of durable goods manufacturers of \$2.2 billion or 0.7 percent to \$294.7 billion reflected declines in several major industries, the largest decline was in the nonelectrical machinery category which was down \$1.7 billion or 2.6 percent to \$61.8 billion. Unfilled orders for transportation equipment and facbricated metal products were each down \$0.4 billion.

The book value of inventories of durable goods manufacturers declined \$0.5 billion or 0.3 percent to \$183.3 billion, offsetting a \$0.5 billion or 0.6 percent increase to \$91.4 billion in inventories of nondurable goods manufacturers. For durable goods manufacturers, inventories have declined 7 of the last 8 months from a high of \$190.2 billion last November. For nondurable goods manufacturers, prior to this month's increase, inventories had also been declining since November, except for a 0.5 percent increase in February.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for August is scheduled for release on September 22, 1982, and full report is scheduled for release on October 1, 1982.

The method of seasonally adjusting shipments data for the motor vehicle assembly industry for July through September has been changed this year and is now consistent with the traditional X-11 approach followed for other industry categories in the survey. Previously, an estimated seasonally-adjusted monthly average for the third quarter was used in each of the 3 months to compensate for the erratic monthly movements which occurred during this model changeover period. The change in procedure was made because the seasonal pattern in the data has become somewhat more stable, and the data series subject to smaller historical revisions.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF WANUERCHURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Williams of dollars)

							(Willions	of dollars	1.5									
				Seasc	Seasonally adjusted	pat						No	Not seasonally adjusted	y adjusted	d1			
			Mon	Monthly			Quarterly					Monthly	1.9				Year-to-date	date
SIC	Industry									Last 4 m	wonths		Last	4 months	a year ago	0		
		198.1p	198. r	1482	1982	1998, 1	***************************************	1	Fully 1985, P	Jane 1982r	Mav 198.	Apr. 1982	July 1981	June 1981	Mav 1981	Apr. 1981	1985	1981
	TOTALS																	
	All manufacturing industries	162,528	161,519	150,878	156,114	474,472	17 1, 185	10, 133	148, 74	169,159	lel, sel	158,058	155,918	174,317	169,15	170,185	1 107 909	1,169,225
	Manufacturing industries excluding transportation	144,542	143,946	143,514	140,168	80.4.	4.5,878	4 57,197	133,631	150,176	1-3,537	141,169	141,118	159,295	150, ***0	151,597	993,493	1,047,826
	Manufacturing industries with unfilled orders	83, 399	82,879	85,596	81,716	248,141	244,.16	77.00	73,188	87,481	83,89h	H2,755	80,543	94,621	88,865	89,110	577,741	610,121
	Durable goods industries	79,775	78,888	79, 118	77,136	7	231,136	20 2	71,971	84, 317	81,485	79,131	76,657	126,26	86,822	87,273	546 074	590,456
	Durable goods with unfilled	66,175	65,889	66,411	688, 449	1+3,58+	1, 18	244,233	54,234	74,135	6h,98l	t., 883	767 199	76,989	21,815	71,947	680.657	492,053
	Nondurable goods industries	82,803	82,631	81,313	78,478	24.7.4	38, 135	. 44,534	73, 198	See, 852	81,956	78,957	79,261	86,345	82,335	82,911	561 732	578,768
	Nondurable goods with unfilled orders.	17,224	16, 990	16,985	14,827	708, 67	978,10	21.1 386	15,469	15,348	16,915	16,873	16,748	17,632	17,060	17,163	118,700	118,066
	MARKET CATEGORIES																	
	Home goods and apparel	11,192	10,858	10,803	11,778	40, 364	32,851 88,745	32,7r;	1,186	11,184	10,275	10,30r	10,804	12,187	10,930	11,078	73,748	77,673
	Equipment and defense products, except automotive	24,343	34,451	35, 356	23,497	73,504	75,574	20, 27. 30, 27.	7,962	26,431	12,289	24,125	9,898	28,048	25,432	25,512	172,695	175,576
	Construction materials, supplies, and intermediate products	12,250	11,720	12,058	Il, such	46,224	34,537	35, 194	1., 20.	11., 39	14,392	11,799	12,696	14,224	13,517	13,781	41 085	91,177
	Other materials, supplies, and intermediate products	711,117	71,473	71,940	684,983	. 11. 45	.17,38	21.12	t >, 1,4	3 3 4K.	× 1-	3, ,788	71,688	80,481	77,966	78,011	496 261	541,005
	SUPPLEMENTARY SERIES?																	
	Household durable goods indus- tries. Capital goods indus- Capital goods industries. Nondefense.	5,178 27,421 22,649 4,772	27,934 27,727 22,906 4,821	28,140 23,471 4,669	14.45 99.55 99.55 99.55	14,609 82,736 68,976 13,781	14,581 84,033 71,169 12,865	14, 739 87,865 75,378	4, 453 4, 477 4, 477 4, 472 1, 472 1, 472	5, 317 29, 748 34, 680 5, 385	28,035 23,246 4,739	27, 40, 25, 40, 25, 4, 25, 2	4,565 25,976 2,313 3,664	5,484 31,309 27,255 4,054	4,972 28,403 24,598 3,806	5,147 28,360 24,600 3,760	33 074 193 352 162,268 31 090	34,953 196,861 170,820 26,040
	INDUSTRY GROUPS AND INDUSTRIES																	
32 32 33 331	Durable goods industries: Stone, (lay, and glass products. Glass containers Pleasy metals. Blast furnaces tee mills.	3,714	3,834 467 8,598 3,989	3,863 465 8,682 3,904	3,728 8,953 4,156	11,425	11,499 1,320 28,429 14,075	11,526 1,338 30,979 15,677	3,756	4,166 505 8,981 4,120	3,923 467 8,951 3,974	5,831 460 9,507 4,440	4,155 466 10,726 5,597	4,597 521 12,529 6,456	4,287 453 12,173 6,209	4,372 462 12,338 6,280	26,295 3,160 64,402 30,550	29,089 3,158 83,664 42,342
34	Rabricated metal products	3,921	9,890	3,894	1,952	11,618	11,677	12,627	3,490	3,946 10,531	10,244	4,165	4,242	4,901	4,794	4,901	27,662	33,577
35 351 352 353	Machinery, except electrical Engines and turbines Farm meethinery and cquipment.	15,072 1,133 1,133	952 15,488 1,152	875 15,899 1,209 1,108	915 15,432 1,296 1,009	2,74.2 46,819 3,657 3,103	2,842 49,096 3,769 3,170	2,720 \$1,717 4,202 3,852	944 13,795 975 824	1,058 16,815 1,276 1,092	912 15,810 1,205 1,162	901 15,602 1,287 1,149	1,038 15,376 1,242 1,155	1,033 18,596 1,469 1,585	970 16,720 1,338 1,452	928 17,036 1,327 1,619	6,474 111,471 8,777 7,610	6,692 117,770 9,431 10,088
354 356	material-handling equipment. Metalworking machinery General industrial machinery.	2,787	2,979 862 1,194	2,815 861 1,305	2,788 894 1,244	8,582	9,169 2,925 4,204	2,830	2,678	3,090 951 1,298	2,871	2,938 875 1,275	3,021 856 1,356	3,281 1,110 1,539	3,199	3,214	20,917	21,913 7,065 9,869
See	See footnotes at end of table.																	

VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued Table 1.

							(Millions of	of dollars	(8)									
				Seaso	Seasonally adjusted	pa						Not	seasonally	y adjusted	.1			
			Mons	Monthly			Quarterly					Monthly	y				Year-to-date	date
SIC	Industry	Inter	funo	Na W	Anr	=	_	ΛI		Last 4 mc	months		Last	4 months	a year ago			
		1982 ^p	1982 ^r	1982r	1982	1982r	1982	1981	July 1982P	June 1982	May 1982	Apr. 1982	July 1981	June 1981	May 1981	Apr. 1981	1982	1981
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods and industries																	
1,2	Electrical machinery	12,089	11,639	11,912	11,677	35,228	34,170	34,285	10,639	12,354	11,716	11,622	10,463	12,455	11,493	11,377	80,521	79,169
	industrial apparatus	1,735	1,715	1,777	1,730	5,222	5,307	5,509	1,507	1,848	1,810	1,746	1,645	2,049	1,89e	1,860	12,337	12,911
10	Radio and TV	741	697	723	675	2,095	2,028	1,964	596	769	609	574	591	869	647	879	4,439	100,4
0 1	Electronic components Transportation equipment	2,539	2,484	2,513	2,468	7,465	7,067	7,192	2,280	2,556	2,488	2,533	2,182	2,336	2,449	2,429	17,014	16,524
2,6	Motor vehicles and parts	11,051	10,420	10,109	605'6	30,038	24,427	25,634	8,516	11,361	10,682	10,297	8,217	11,942	11,235	10,949	66,261	70,594
31	Shipbuilding and military	5,355	5,681	5,590	4,912	16,183	15,246	16,970	4,942	6,078	5,640	166'*	779,7	6,035	5,486	5,002	36,728	37,363
50	tank vehicles	987	929	766	006	2,823	2,839	2,837	951	896	1,047	882	876	1,047	1,012	974	6,563	1,076
7 7	products Scientific and engineering Photographic goods	3,977 2,383 1,362	4,007 2,314 1,453	3,988 2,336 1,408	3,825 2,218 1,379	11,820 6,868 4,240	11,628 6,972 3,974	11,893	3,583 2,105 1,271	4,285	3,936 2,315 1,382	3,758	3,613 2,126 1,251	2,568	3,971	3,842	26,943 16,123 9,237	27,225 16,217 9,201
	All other durable goods industries	8,242	7,859	7,764	7,826	23,449	23,472	23,695	7,552	8,192	7,901	7,943	7,864	9,085	8,647	8,909	53,965	58,51.
	Nondurable goods industries: Food and kindred products	23,484	23,315	23,018	22,302	68,635	67,182	65,256,	21,857	23,812	32,721	21,813	21,301	23,402	21,973	22,493	156,735	156,279
	Meat products	3.066	3.002	3.112	3,201	18,683	17,285	17,428	5,969	3,437	6,321	3,215	5,815	3.761	5,800	5,649	21,407	19.515
7 - 6 0		1,440	1,490	1,406	1,416	4,312	4,305	4,562	1,335	1,430	1,341	1,399	1,448	1,484	1,479	1,606	9,983	11,051
	To	1,021	1,351	1,128	1,157	3,636	3,378	3,319	1,024	1,388	1,140	1,153	1,132	1,096	966	1,050	7,916	1,286
	Paper and allied products	6,601	6,425	6,346	6,463	19,234	19,914	20,007	6,196	6,727	6,447	6,538	6,239	6,868	6,693	6,734	46,021	£1,54
2 -3	Pulp, paper, etc	1,558	1,528	1,619	1,465	4,453	4,539	4,651	1,442	1,572	1,477	1,505	1,509	1,665	1,584	1,595	19,358	10,988
v.†	All other paper products Chemicals and allied products	2,363	14,595	2,267	2,306	6,793	6,877	6,776	2,234	2,345	2,249	14,542	13,635	2,256	15,114	15,339	100,089	15,590
1,6	Industrial chemicals, ex- cept pigments	4,568	4,626	4,538	4,425	13,589	13,801	14,724	4,203	4,825	4,652	4,734	4,847	5,458	5,264	5,413	32,886	36,678
	Petroleum and coal products	17,536	17,592	17,382	16,494	51,468	48,733	24,560	17,190	17,770	17,287	16,194	17,965	18,683	18,3.7	17,757	117,816	129,016
	n.e.c.	3,853	3,762	3,569	3,500	10,831	10,580	11,258	3,511	3,898	3,592	3,648	3,714	4,217	5,903	4,123	25,299	27,438
	All other nondurable goods industries	11,617	11,374	11,583	11,252	34,209	35,278	34,758	11,134	11,350	11,031	10,998	11,419	11,530	10,794	11,074	78,675	77,039
Poro	Porc) (military)									-								

"Revised, Preliminary.

and new orders are the totals for the period and are adjusted for trading-day and calendar-nonth variations; unfilled orders and inventories are as of the end or the period and are not adjusted for ading-day or calendar-month variations.

neous personi goods.
Capital goods industries—"Comparable to the previous produces" capital goods and the defense products (old series) categories.
Nondefense products—"Aschinery, except electrical excluding farm machinery and equipment, aircraft and aircraft parts, and ordnance. The supplementary series are regroupings of the separate industry categories as follows Household hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks, and clocks, and clocks, and clocks.

the condefense portions of Salabuliding and relivond equipment, communication equipment, aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft and aircraft parts, and oblighuilding. Defense products—Based on separate reports on defense work filed by large defense contractors in the following indistries. Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the Maril 5. Shipments to Federal Government species of Spreads of Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

Tuble 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET (ATECORCIES, AND SUPPLEMENTAR) SEGIES

Calllions of dollars:

SIC

			Season	Seasonally adjusted	pa	TALLES OF THE STATE OF THE STAT					Yot	seasonall	seasonally adjusted ¹	en 70			
		Monthly	aly			Quarterly.					Monthly	ly				Fear-1 date	-date
Industry									Last 6.	onths		Last	4 rouths	a vear ago			
	NIV 1982P	June 1982f	Nay 1482	April . 45.	12.49.	- 4	= °	1.15 4.8.5	lusa 1982	"an 148.	April 1482	July 1+81	Jane 1481	Max 1981	1pr11	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	F + .
TOTALS																	
All manufacturing industries	160,171	157,058	156,741	154,495	163,84.	40 1.7 2	4, 5, 1, 4	lass, Sau	161,730	145,254	1 4,759	136.31.	177, 036,	18914	171, 937	1,000,5.8	1, 177, 742
excluding transportation	147,590	140,711	140,780	138,401	414,89.	418 -77	430 443	1.81, 198	112,01	77.30	134,386	140,481	158.912	Lot . 72×	132, 99n	117	1, 155, 051
unfilled orders	81, 14,	78,418	74,559	81,011	, 38, .3x	236	40 454 .	1, 6 1, 1		1111	*	8 1, 475	42,341	35 08 1 1 0 0 1	40 862	363,490	18,087
Durable goods industries	77,538	74,550	75,710	74,144	2. t , u Su	682 662	233.20	67,7.4	7 7 2	70.15	1981	1 7. 2. 4	4D, 8HB	80,609	88,737	18, .25	3.8 844
Orders	63,988	61,551	62,803	63,944	188,53.	134,463	14, 761	,7 	12.5	(1, 1).	1000	nu, 841;	74, 406	71 591	73.410	566,500	176.95
Nondurable goods industries	82,633	87,508	81, 141	18,813	. 4.7, 59, 1	238 ±73	2.3.4.7	×I++	×4, 531	XII) LED	14,892	74, 147	ðh. 148	82,50.	83, 201	5601,734	574,4B7
orders	17,054	14,467	16, 756	20, 603	50,.71	52, 414	11 3	7 × 32	1	16, 605	808,4	16, 13.	17,435	17,233	17,452	117,692	118.764
orders,	62:33	159,641	n4, 32 .	62.141	19.,117 }	187 15.1	692 243	11,15,19	1	04,141	4,2,1184	63, 013	68,713	45,275	65, 749	++ 5, 133	460,098
MARKET CATEGORIES									-				-				
Home goods and apparel	11,039	10,964	11,040	10, 367	5. 11.59 9 1, 487	37, 486 88, 786	31	1.7	11,591	1 ,478	1,891	27,947	30, 391	10,875	11,388	74,155	78, 447
except automotive	12,766	13,179	22, 174	25,890	31,143	78 19.7	75,2.7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13, 117	21, 137	25,534	23,358	26.573	24 762 13,110	26,117	170,592	179,087
and intermediate products	12,132	11, 384	11,592	11 -03	33,979	13,970 }	34, 34	11,814	1., 31**	12,116	.1 384	12,829	14,378	14.031	13,565	29,655	97,008
intermediate products	70,284	68,574	70,347	57.437	206,858	2011, 360	217, 508	13,734	137.	59.833	94,446	71, 169	79,601	78, 151	79, 149	486,182	543, 448
SUPPLEMENTARY SERIES?						-					*****						
Household durable goods indus- tries. (Tapital goods industries. Nondefense. Defense.	5,028 25,403 20,771 4,632	24,715 19,778 5,437	5, 122 25, 107 20, 332 4, 775	28, 782	14,280 28,604 64,18	14, 8) 1 86, 3) 2 45, 43	14, 185 83, 783 68, 027 14, 757	1,383	5,.18	3,581	28, 44, 8, 5, 2, 5, 2, 5, 2, 4, 4, 5, 8, 2, 7, 7, 8, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	4, 653 20, 148 22, 175 3, 973	29, 890 25, 823	4, 902 28, 014 23, 404 4 61	5,429 29,862 25,662	33,504 188,462 149,537 38,921	36, 162 241, 387 172, 359 30, 326
INDUSTRY GROUPS AND INDUSTRIES																	
Stone, clay, and glass Primary metals Blast furnees, steel mills.	5,794 8,741 4,025	3,792 8,617 3,789	3,877	3, 642 8, 137 3, 583	11, 411 25,207 11,300	11,093	11,612 28,454 14,040	3,761	4,085 8,90 3,499	3,937 x, 156 3, 284	3,755	4, 169 10, 462 5, 285	4,607 11,514 5,996	4,303 11,826 5,870	4,365 12,457 6,743	25,946 59,782	29,157 83,540 43,021
metal products	3,867 9,613 13,417 806	3,939 9,389 13,015	3,741 9,405 14,408 1,338	3,828 8,989 15,262	11,508 27,783 42,685 3,285	11,073 27.648 44,013 3,397	27,836 49,838 3,430	3, 305 8, 825 12, 230 630	3,926 9,885 14,478	3.768 9.563 13,781 1,291	3.884 9.155 15,391	4, 169 10, 084 14, 874 1, 067	4,499 11,445 18,653 1,346	4,844 111,193 16,441 1,168	4,675 10,517 17,625 1,357	26,846 65,225 101,841 7,448	33,228 74,436 119,309 9,037
Consciential-handling equipment. Metalworking machinery General industrial machinery.	2,479 710 1,118	2,528 740 981	2,258 649	1,857	0,643 2,012 3,271	7,651 1,993 3,894	9,420	2,334 608	2,551	2,087	2.139	3,343	3,707	3,255 738 1 570	3,813	17,246	24,473 6,022 10,528
footnotes at end of table.																	

-5,9

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

				Seaso	Seasonally adjusted	pa						No	Not seasonally adjusted1	y adjusted	d1			
			Mon	Monthly			Quarterly					Monthly	1y				Year-to-date	-date
SIC	Industry	Toda	Tuno	Mess	Amen's					Last 4 months	onths		Last	Last 4 months a	a year ago			
		1982P	1982 ^r	1982 r	1982	1982r	1982	1981	July 1982 ^p	June 1982 ^r	May 1982 ^r	April 1982	July 1981	June 1981	May 1981	Aprı1 1981	1982	1981
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery	12,409	11,705	11,888	12,508	36,101	36,015	34, 196	10,668	12,106	11,532	12,471	10,542	13, 106	11,767	11,819	84,068	82,899
363	industrial apparatus	1,693	1,396	1,738	1,490	4,624	5,044	5,308	1,421	1,470	1, 739	1,630	1,672	1,970	2,024	1.895	11,645	13,573
365	Radio and TV	169	653	918	065	2,161	2,039	1,787	995	831	769	795	537	1,150	516	248	4,509	4, 796
366	Communication equipment	4,396	4,568	3,352	5,012	12,932	12,988	10,883	3,685	4,349	3,466	4, 789	3, 293	4,029	3, 633	3,577	106'62	25,608
36/	Transportation equipment	17,581	16,347	2.803	2,415	7,328	7, 180	7, 296	2,234	2,320	2,617	2,688	2,156	2,493	2,530	2,748	17,482	17, 199
372,6	Aircraft, missiles, and															-		
37.31	Shabbulding and military	5,159	7,560	4,854	5,779	15,193	20,522	15, 123	4,341	4,812	4,426	5,624	5,411	4,955	5,566	5, 198	39,447	37,759
3795	tank vehicles	627	877	711	1,092	2,680	2,894	2,293	157	697	687	1,238	820	545	7.05	1,896	5,379	7,156
0	products	4,005	3,767	3,896	3,920	11,583	11,801	11.970	3,580	4,142	3,770	3,826	3.729	4,421	3,988	3, 754	27,030	27,508
24 25 39	All other durable goods industries	7,978	7,918	7,772	7,141	22,831	23,983	23,565	7,366	8,194	7,956	7,472	7,975	9,017	8, 706	9,258	54,281	59, 721
q	1																	

'Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for rRevised. Ppreliminary.

Capital goods industries—Comparable to the previous producers* capital goods and the defense product (old series categories, Productive (excluding household appliances, radio and TV, and electronic components), and Mondelesse products—slockhorsy except clarification (excluding far machinery and equipment, annual machiners and ordanics, and ordanics that is and repairing and relations equipment, annual machiners, and ordanics of shipbuilding and relations described and an arrest parts, and shipbuilding.

Means are comparable to those published annually in the Wul-15. Shippents to Peters and Shippuilding. trading-day or calendar-month variations.
The supplementary series are regroupings of the separate industry categories as follows:
Household durable goods industries-Household furniture: Kitchen articles and pottery, handtools, and hardware; household durable goods industries-Household furniture: Kitchen articles and pottery; cutlery, handtools, and hardware; household durable goods industries-Household furniture:

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Table 3. VALUE OF NANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, WARKET (ATECORIES, AND SUPPLEMENTARY SERIES

March Marc					Seasonally	lly adjusted	Millions	of dollars	2				Not	seasonally	ly adjusted	d1		
1948 1962 1962 1962 1962 1962 1963 1963 1963 1963 1963 1964 1964 1964 1965 1964 1965			Mon	thly			3	Quarterly						Month	hly			
1947 1942 1942 1944		July	line	Mov	1 1100				;			3	onths		Las	-3	a vear	
186,472 196,011 196,482 114,521 115,693 116,012 117,105 117,		1982P	1982r	1982r	1982	1982	1981	1981	1981	1981	July 1982p	June 1982 ^r	Mav 1982	April 1982	July 1981	June 1981	Nay 1981	4pril 1981
186,422 189,180 19,740 19,342 197,110 204,912 111,105 111,105 197,005 197,005 197,006 199,342 197,110 204,912 111,105 111,10																		
187,422 189,180 197,606 197,102 204,912 211,104 211,015 291,407 187,504 199,1109 291,109 292,607 201,104 205,006 205,942 205,921 211,014 211,010 201,104 211,010 211	All manufacturing industries	303,672	306,032	310,482	314,521	315, 639	318, 521	327,955	327, 105	323,054	302,077	105,804	312,234		327.359	32h, 927	324 207	329,250
1,000 2,000 2,000 3,00		187,422	189,380	192,606	195,342	197,110	204.912	211,164	211.677	297,473	187,569	190,179	194,594		212.274	212,411	112, 794	212 506
3,899 9,100 9,288 9,318 9,092 10,211 11,407 11,407 11,030 8,972 9,131 9,472 1,732		294,677	296,866	301,194	305,004	305,947	308,370	316.841	315,618	312,018	293,105	196,65.	302,7621		315, 495 "	315, 444	317,532	317,74
3,699 4,087 3,951 1,984 4,724 4,724 4,727 4,12	Mondurable goods industries,	8,995	9,166	9,288	9.518	9,692	19, 251	11,114	11,487	111.030	8,972	9,152	4,472	4,782	11,36.	11.478	11, 575	11.505
15,673 186,714 188,774 191,519 190,002 187,724 191,324 194,727 17,072 17,													-					
15,071 15,170 15,506 189,274 191,519 190,007 187,724 191,527 17,072 17,07	Home goods and apparel	3,899	780,4	3,951	3,084	£	4,244	7.64	4,823	- 656,+	4,150	1 1 20	3,470	77 17	5,205	55.7	, 68.33 	4.775
15,071 15,170 15,506 15,972 10,409 104,793 109,071 114,270 11,072 11,176 11,176 11,170	Automotive equipment	185,673	186,916	188,274	191,519	190,001	187,724	191,356	189,974	188,940	184,341	186,293	189,41	353	190,015	189,403	191,375	191,719
2,810 2,99,839 102,731 103,340 100,793 109,071 114,270 114,832 117,170 86,475 99,403 103,423 105,264 114,063 114,582 115,002 115,002 116,772 116,772 116,772 116,772 116,772 116,772 116,772 116,772 116,772 116,772 116,772 117,832 116,772 116,772 117,832 117,832 117,832 117,842 117,842 117,842 117,842 117,842 117,842 117,843 117,841 117,843 117,841 117,841 117,841 117,841 117,841 117,842 117,841 1	and intermediate products	15,071	15,170	15,506	15,972	16,416	16,982	17.527	17.674	17.388	115,211	15,410		10,106		17,945	17, 792	17,279
2,580 2,981 2,888 2,643 3,188 3,089 3,523 2,701 22,22,27 22,520 13,178 2,419 2,727 4,000 3,917 2,017 2	intermediate products	620'66	658,869				109,671	114,276	114,634	112, 156	98,475	66,903		105.254	114,063	114,582	115,002	115,477
2,810 2,261 2,868 22,643 1,288 20,621 228,701 22,627 20,530 135,178 18,172 22,99 2,773 4,003 3,912 23,09 22													_					
1,701 1,720 1,782 1,782 1,783 2,244 2,533 2,246 1,784 1,784 1,754 1,754 1,875 2,882 23,554 29,333 2,9597 30 0.12 22,436 22,148 2	Household durable goods indus- tries. Capital goods industries. Nonderse. Defense	2,810 216,742 132,351 84,391	2,961 218,756 134,276 84,530	2,858 221,766 137,852 83,914	2,643 224,799 140,991 83,808	3, 288 222, 888 140, 982 81,905	3, 069 220, 621 146, 701 73, 919	3, 623 224, 701 153, 052 71, 650	704 627 870 758		3,049 215,178 132,500 82,678	3,119 218,117 134,473	2,919 222,209 138,174 84,035		4,003 222,152 154,761 57 400	3,915 221,990 154,899 57,091	3,617 223,409 156,331	3,688 223,798 157,524
1,701 1,720 1,762 22,146 22,147 22,278 21,195 26,203 29,148 29,533 28,933 1,786 1,756 11,704 1,759 1,822 23,654 29,333 29,997 1,304 1,759 1,822 23,654 29,333 29,997 1,304 1,3	INDUSTRY GROUPS AND INDUSTRIES																	
6,532 6,586 6,449 0.572 2,0.697 7.302 8.078 8.522 8,533 6,175 6,560 6.579 6.86 8,427 8,503 8,503 8,903 6,175 2,105	Stone, clay, and glass	1,701 22,396 13,241	1,720 22,168 12,930	1, 762 22, 147 13, 129	1, 749 22, 378 13, 106	1, 835 23, 195 13, 679	2,241 26,623 16,113		2,296 29,533 17,693	2, 286 28, 933 14, 984	1,764	1,759 22,170 13,046	1.939 22,862 13,668	1,825 23,654 14,058	2,365 29,333 17,576	2,351 29,597 17,888	2,341 30,612 18,348	2,325 30,959 18,688
7,054 7,186 7,813 8,370 9,301 10.819 11,422 10,956 9,094 7,039 7,184 7,033 8,707 11,311 10,989 10,563 8,707 1,313 1,422 6,420 6,480 6,480 6,480 6,810	metal products. Fabricated metal products Machinery, except electrical Engines and turbines.	6,532 25,960 61,808 15,342	6,586 26,384 63,462 15,668	6,419 26,883 65,934 15,867	6.572 27,574 67,425 15,739	6, 697 28, 334 67, 595 16, 039	7,302 29,240 72,627 16,411	8.078 30,170 74,505 17,183	8,526 30,598 75,021 17,771	8,533 30,275 74,018 17,718	6,375 26,054 62,257 15,171	6,560 26,419 63,831 15,516	6,579 27,065 66 169 15,827	6,846 27,745 68,198 15,741	8, 427 31, 054 74, 714 17, 334	8, 500 30, 629 75, 216	8,903 30,583 75,159 17,632	8,853 30,205 75,439 17,802
	Constitution, maning, and material-handling equipment. Metalworking machinery	7,054 3,179 5,852	7,362	7,813		9,301	10, 819 4, 870 6, 790	11,424 5,742 6,816	10,956 6,452 6,650	9,694	7,039	7,384 3,315 6,013	7,923	8, 707 3, 672 6, 342	11, 311 6, 208 6, 752	10,989	10.563	10,507

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--CONTINUED

į																		
					Seasona	Seasonally adjusted	pq						Not s	easonally	Not seasonally adjusted ¹			
			Mons	Monthly				Quarterly						Monthly	1y			
SIC	Industry group	July	anni	200	April	-	VI	111	:	-		Last 4 mc	months		Las	t 4 months	Last 4 months a year ago	
		1982 ^p	1982 ^r	1982r	1982	1982	1981	1981	1981	1981	July 1982P	June 1982 ^r	May 1982	Apr.1 1982	July 1981	June 1981	May 1981	April 1981
	INDUSTRY GROUP AND INDUSTRIES Continued	-																
	Durable goods industries																	
361,2	Electrical machinery	54,975	54,655	54,588	54,613	53, 784	51,939	52,028	50,778	49,101	54,777	54,750	54,999	55,180	50,990	50,911	50,257	49,983
	industrial apparatus			8, 163	8, 202		8, 705	8,906	8,849	8,800		7,904	8,282	8.352	8.940	8.913	8.992	248
363	Household appliances		304	332	319				429	419	345	327	343	329	455	7.60	677	077
365	Radio and TV			697	274				414	418		431	369	209	365	617	138	269
366	Communication equipment			32,413	32,868				28, 239	27,019		33,050	32,715	33,096	28,170	28,059	27,790	27,613
367	Transportation couldment	11,738	11,714	12,088	11, 798	11,852	11, 739	11,635	11,677	11,296	11,890	11,937	12, 173	12,043	11,861	11,887	11.730	11,649
372,6	Aircraft, missiles, and								77. 177	700 000			777		177,000	076,411	110,413	110,744
37.31	Shipbuilding and military	91,300	91,494	92,613	93,349	92.483	87,207	89,054	87,525	88, 151	807,06	91,008	92,275	93,490	87,679	87,112	88, 192	88.112
3795	Instruments and related	19,002	19,361	19,413	19,695	19,503	19,449	19,993	19,732	19,110	18,262	19,056	19,555	20, 162	19,366	19,494	19,996	20,303
25	products	7,155	7,128	7,367	7,458	7,362	7, 189	7,112	7,034	6,984	7,198	7,202	7,345	7,511	7,226	7,110	6,980	6,963
39	industries	4,432	769,4	4,637	4,629	5,313	4,801	4,931	4,931	4,839	099'5	978 67	4,843	4,786	5, 230	5,119	5, 187	5,128
																To division in which the		

Preliminary. TRevised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-

day or eladear-sooth variations.
The supplementary extricts are regrouping of the separate industry categories as follows:
The subplementary extricts are regrouping of the separate industry categories as follows:
The subplementary extricts are regrouping to the separate industry categories and pottery; cutlery, handtools, and hardware; household applicances, radio and TV, ophthalaic goods, watches, and clocks and nixeellanoose personal goods. inductives—constants to the previous producers" capital goods and the defense products fold series) categories.

Nondefense productives—constant (excluding from maintainers) and entering from maintainers and entering from maintainers and entering from maintainers and entering from maintainers and entering from maintainers and entering from the first parts, and orders ever filters that are defense ever filters by the defense ever filters. Orders ever filters by the defense ever filters are consistent to entering from the filters. Orders ever filters are consistent and aircraft and aircraft parts, the defense ever to ever filters are consistent ever the following the filters are constanted and aircraft and aircraft parts, and shipbuilding. The data are comparable on separate from the softly, Silpments to federal forcement Agencies—(forcement Agencies—(forcement Agencies) for the specified infastrice. 7

Table 4. VALUE OF VANUFACTURERS INVESTIGATES FOR INDISTRA GROUPS, WRIGET CATEGORIES, IND SUPPLEMENTARY SERIES

(Williams of dollars)

					Seasonally	ally adjusted	ed						Not	seasonally	adjusted1	1		
			Mon	Monthly				-duarterly						Monthly	1 y			
<u>~</u>	[ndustry			, item	5		-		-	-		Last 4 m	ronths		Last	t 4 months	а уеаг ако	
		July 1982 ^p	June 1982	198.2	1982	1982	1981	1981	1981	1981	141y 1982	June 1982	Mav 198?	Apr.	July 1981	June 1981	May 1981	Apr.
	TUTALS																	
	Wil manufacturing industries	275,175	275,115	276,449	278,985	280,965	285 152	282,209	2.4 616	211.062	274,707	276,281	274 391	282,017	276,499	275 626	1.0 959	2~4,918
	Manufacturing industries ex- cluding transportation	235,780	236,141	237,748	740,142	241,915	July (1)	243.800	236,930	170.51	235,740	237,630	240.698	243,064	120,962	238.371	239,550	237 466
	Nanufacturing industries with unfilled orders	189,884	190,443	141,345	142,468	192 527	194,605	192,872	185,811	182, 761	190,915	192,333	194,175	194.711	188,484	18, 599	187 273	186,311
		183,825	184,289	184,870	185,915	186,063	188,429	187,686	181,125	178 174	183,852	185,442	187 287	188,253	183.218	182.247	182,384	181,582
	Purable goods with unfilled orders.	158,905	169,479	170,176	171,189	171 054	172.875	171,343	165,092	162,165	159,408	170,042	172,341	173,035	167,378	166,137	165.947	165 134
	Nondurable goods industries	91,350	90,826	91,579	93,070	200'76	94,723	46.523	93,492	889,16	90,855	90,834	42,104	93,764	93 281	43.378	94.575	93,337
	Nondurable goods with unfilled orders	20,979	21,014	21.169	21,274	21,467	21, 29	625.15	20,809	20 595	21,509	21,691	21.834	21,736	21,611	21,462	21,326	21 177
	MARKET CATEGORIES																	
	Home goods and apparel	21,768	21,598	21,779	21.94R 33.63	33.631	33,100	22,084	32,829	21.165	32,404	31,935	22 775 32 653	22.436 33.342	22,380 31,963	31.890	32.333	21,880
	Equipment and defense products, except automotive.	77,417	77,622	17,506	77,708	76 116	76 445	15.187	73.206	71,468	10.535	77,936	78,267	78,430	73.834	73.511	73 429	12,229
	Construction materials, supplies,	20.481	20,533	50	30		32,172	22,488			20,426	20,783		21,301	22,029	22,047	21,979	21 762
	Other materials, supplies, and intermediate products	110,598	111,304		113.	115,379	116,613	116,821	113,249	112,223	111,173	111,977	113,557	115,199	114,813	113,883	114,522	113,594
	SUPPLEMENTARY SERIES																	
	Household durable goods indus- tries. Captal goods industries. Nondefense Defense	10,773 87,366 73,110 14,256	10,744 87,393 73,166 14,227	10,692 87,644 73,615 14,029	10,856 87,752 73,806 13,946	10 896 86,795 72,937 13,857	11.256 86,515 73,360 13,154	11,026 85,623 73,131 12,492	10.549 82.976 70.821 12.155	10,463 81,093 69,688 11,406	10,992 87,648 73,168 14,480	11,081 87,869 73,469 14,400	11,119 88,594 74,403 14,191	11,080 88,587 74,582 14,005	10,938 84,116 71,736 12,380	10,881 83,445 71,139 12,306	10,996 83,171 71,268 11,903	10,805 82,683 71,000 11,683
	INDUSTRY GROUPS AND INMISTRIES																	
32 332 33	Durable goods industries. Stone, clay, and glass products Glass containers. Primary metals	6,393 676 14,383 12,455	6,382 678 24,617 12,560	6.429 696 25.063 12,867	6,479 702 25,403 13,075	6,544 719 26,056 13,441	6,792 697 26,250 13,347	6,766 679 25,927 13,198	6,351 633 24,129 12,229	6.170 644 24.194 12,680	6,438 699 24,402 12,443	6,505 691 24,643 12,515	6.676 714 25.181 12.764	6.723 716 25.499 12,825	6,466 635 24,687 12,567	6,468 645 24,163 12,180	6,518 658 24,036 12,123	6,417 646 24 076 12,116
333-6, 9 34	Nonferrous and other primary metals. Fabricated metal products.	10,561	10,710	10,834	10,907	11,145	11,273	11,139	10,416	10,030	10,603	10,742	10,997	11,179	10.646	10,447	10.365	10,409
341 35 351 351	Metal cans, barrels, and drums. Machinery, except electrical. Engines and turbines.	1,530	1,504 44,008 2,520 2,763	1,407	1,391	1,409 44,134 2,587 2,808	1,318 44,376 2,625 2,935	1,576 43,471 2,672 2,804	1.549 41.799 2.512 2.847	1.604	1,612 43.769 2,504 2,554	1,677 44,342 2,542 2,805	1,607 45,015 2,608 2,832	1,616 44,962 2,641 2,904	1,634 42,413 2,509 2,822	1,727 42,114 2,535 2,890	1,772 42,092 2,500 2,970	1,772 41,702 2,520 2,989
353 354 356	Construction, mining, and material-handling equipment. Metalworking machinery. General industrial machinery.	11,009 2,392 4,084	11,134 2,427 4,094	11,391 2,480 4,155	11.301 2,539 4,142	10,950	10,643	10,044 2,858 4,053	9,543	9,271 2,756 3,785	11,053	11,200 2,439 4,139	11.471 2.510 4,176	11,387 2,554 4,181	9,718 2,831 3,976	9,600	9,499	9,444
See	See footnotes at end of table,																	

					Seasonally	ally adjusted	pa						Not	seasonally	y adjusted			
			Monthly	1y			Or .	Quarterly						Monthly	ly.			
SIC	Industry											Last 4 mc	months		Last	t 4 months	a year ago	
		July 1982P	June 1982 ^T	May 1982	Apr. 1982	1982	100,	1111	1981	1981	July 1982P	June 1982 ^r	May 1982	Apr.	July 1981	June 1981	May 1981	Apr. 1981
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
1,2	Electrical machinery	26,882	26,950	27,024	27,365	27,526	28,142	28,110	27,234	26,533	27,129	27,472	27.733	27,820	27,749	27.763	27,678	27,532
	distribution equipment and	4,303	4,376	4,361	607'7	4.474	4.566	4,710	4,462	4,280	4,316	4,430	4,469	4,485	4,542	4,515	4,506	657.7
6.0	Household appliances	1,890	1,886	1,853	1,868	1,895	2,044	2,050	1,951	1,894	1,915	1,982	1,789	1,781	1,679	1,617	1 627	1 519
9	Communication equipment		9,334	9,349	6,407	9,410	9,337	9,241	9,257	9,133	9,339	9,358	9,430	9,486	4,231 5 835	9.280	4.311 5.730	9.391
7	Flectronic components		39.074	38 701	5,635	5,680	5,823	38,409	37,686	37.041	38,967	38,651	38,693	38,953	37,478	37.255	37,409	37,452
-	Motor vehicles and parts		8,649	8,495	8,640	8,673	9.226	9,608	9,596	9,838	8,284	8,386	8,428	8.657	9,062	73 753	23 559	9 729
3,6	Aircraft, missiles, and parts Shipbuilding and military		26,893	26,599	26,432	189,62	2 181	577,47	2.255	2,218	1.613	1.682	1,709	1.825	2,214	2,269	2 313	1,22,4
^6	Instruments and related		7/017	1	00.4								0000	204 0	07.7	0 575	744 6	075 6
7-1	products	9,382	9,393	9,303	9,516	9,399	9,610	9,528	6,389	6,189	9,453	9,590	6.626	6,707	6 425	6,498	6 514	6,393
9	Photographic goods		2,288	2,291	2,357	2,405	2,537	2,508	2,405	2,408	2,289	2,368	2,392	2,455	20,77	10	770.7	176
	All other durable goods	14,354	14,272	14,239	14,246	14,404	14,814	15,141	14 824	14,523	14,322	14,377	14,386	14,462	14 967	14.917	14.974	14 855
	Nondurable goods industries: Food and kindred products	20,338	19,830	20,140	20,377	20,405	20,400	21,290	21,296	21.583	19,376	18,808	19,344	19,919	20,257	20.184	20,663	20,949
7	Meat products		1,803	1,933	1,914	1,934	1,711	1,840	3 617	2,010	3.375	3.486	3.550	3.639	3,426	3,523	3,683	3,769
7 00	Beverages		1,381	1,389	1,361	1,298	1,403	1,501	1,512	1,650	1,135	1,269	1,330	1,399	1,309	1,394	1,541	1 606
3-6,9			11,433	11,606	11.825	11,778	11.884	12,499	12,434	12,411	11,398	10,575	10,793	11,175	11.86/	3 539	3.736	3.836
	Tobacco products	6,391	6.367	4,812	6.513	6,587	7,011	7,008	6,949	6,812	6,407	6,470	6,726	6.729	6.977	7,064	7,059	7,055
	Paper and allied products		8,757	8,810	8,842	8,921	8,825	8,545	8,239	8,175	8,818	9,005	9.080	9,045	8,468	8,477	3 196	3 167
1-3	Pulp, paper, etc		3,576	3,590	3,560	3,540	3,461	2,275	2,192	2,113	2,305	2,378	2,365	2,353	2,293	2,273	2.214	2,202
0 4	All other namer containers		2,890	2.922	2,980	3,070	2,972	2,961	2,881	2,921	2,925	2,992	3,053	3,083	2.967	2,981	2.998	2 972
	Chemicals and allied products	20,802	20,973	20,895	21,363	21,428	21,615	21,334	20.917	20,141	20,750	20,864	21,156	21,729	70,891	70, 780	# 00 O.	20.33
1.6	Industrial chemicals, except	6,432	975,9	6,532	6,676	6,763		6,876		599'9	6,477	6,501	6,637	6,744	6,849	0,817	6.874	6,710
3,4	Drugs, soap, and tolletries,	6,421	6,450	9.060	9,604	10,531	10,544	6.324	6,283	6,148	6,485	9,096	9.010	9,518	11,281	11,412	11,420	11,212
	Rubber and plastics products,		9,046	6,115	6,165	6,153	6,298	6,434	6,308	6 199	5,811	260.9	6,262	404,4	6,334	6.360	5 474	6,482
	411 other nondurable goods																107 75	6
	industries	15,121	15,055	15,246	15,323	15,406	15,628	15.015	14,626	14,511	15,940	16,051	15,883	15.596	15,58/	13,307	7	

rRevised. Ppreliminary.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not artisted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not artisted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are adjusted for trading-day and calendar-month variations. ading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:
Household durable goods industries--Mousehold furniture; katchen articles and pottery, cullery, handtools, and hardware, household appliances, radio and TV ophthalmic Goods, watchen, and clocks, and

missellamous personal goods.

"assellamous personal goods and the defense products (old series) categories.

"An additives, comparable to the previous producers" capital goods and the defense products and another second and ordance.

Nonderess products—second and reparting and reparting equipment, communication equipment, aircraft and aircraft and aircraft and ordance, communication equipment, and ordance.

The data are comparable to those published annually in the UA-175. Shipments to Pederal Communication Shipments of Instructed Industries 3, for the specifical Industries.

Table 5. VALLE of MANJACTHERS' INVENTERIES, IN STAGE OF FARRICATION BY INVESTEY GREEP OF TABLE OF THE STATE O

				Seasonally	lly adjusted	d dilling	S INTERIOR					2	year radiy	a Husted			
		Month	1 y			n&	sarterly.						A nthi	-			
Industry	Jul., 1982p	June 1982 ⁷	Ma.) 1982	Apr. 1982		IV 1481	1111	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 191	July	Jasr - "	Man	Apr.	July		V+31 xs*	4pr
TOWALS										1.0821	1 4851	1482	1 38.	1 481	77	1 481	1-81
All manufacturing industrie	275,175	275,115	276,444	278,485	280,065	263,152	τ η	274,516	271. 162		14.1.2.		282,017	276.494	275,626	482.48	27.418
Durable goods industries	183,825	184,289	184,870	185,416	186,063	188,424	187,686 1	181,175 1	6.170	181,852	165,442	187.287	168,231	183,218	182,.47	82.38+ 6.538	181,582
Primary metals.	19,261	24,617	25,063	25,403	26,956	26.250	223	24.194	24,244	7 8	12,043		25,444	24 087	24,163	00 T	24, 376
Nonelectrical machinery	43,775	800 55	44,447	44.449	44,134	44, 376	77	42.744	41,142		44,342		44, 462	42,413	42,114	240,24	41.702
Transportation equipment	34,345	39,074	38,7.1	38,743	38 150	36.257	Tree of the second	37,686	5,1141	34, 45	38,00.1		38,453	37,478	37.255	37,478	57.452
Instruments and related products	14,354	14,272	9,303	9,516	14,404]	14,610	141	1,872	1,188	14,453	14,577		14,687	14,467	1, 575	14,974	4,540
Changeds and allted products	91,350	40,824	91.579	93,070	2011,44	44,723		43,442	688	40,850	11,5341		43.764	43.281	43,378	44,575	+3.337
Petroleun and coal products	9,280	9,101	9,060	4,673	10,031	10, 244	810	11,479	11,431	9,393	1 1		4,518	11.781	11,412	11,920	20,352
All other nondurable goods industries	55,437	54, 'dh	55,509	5,165	55,841	6,298 56,20¢	4,54	54,843	54. 417	54, 4.3	24.77		56,113	54,775	0,360	6,414	55,090
NATERIALS AND SUPPLIES					-												
All manufacturing industrics	92,536	92,357	93,168	94,433	44,214	46,476	96, 114	44,041	13,356	4, ,134	42,359	23,448	44,451	45.345	94,181	93,948	64,479
Durable goods industries	55,747	55,643	55, 496	56,947	16.847	18,461	58, 408	57,6.1	56,382	52,733	15,718	56.151,	56,464	58.036	57,089	56,549	56,771
Primary metals	8,324	86,4,8	8,600	8,725	8.694	8,904	8.730	8, 342	8,725	127	8, 4114	8.423	8,437	8,447	8,255	8,025	8.255
Fabricated metals	7,176	11.458	11.673	13.645	7.388	7.704	7,888	11.64	7,885	11.40	7,283	7, 395	7,465	7,760	7,555	7,563	7,624
Electrical machinery	7,589	7,514	7,664	7,490	7,902	6,245	8,4-32	8,137	7,843	,	, 56×	7.852	8,160	8,423	8.321	8.286 1	8.203
Instruments and related products	2,811	10,287	2,741	3,020	2,482	2,482	3.014	3,016	2,468	2,823	2,875	2.767	3,029	3,065	3,059	3,084	13,325
All other durable goods industries	5,527	5,544	5,616	5,639	5,710.	5,428	6,114	5. 147	5,867	5,735	S, 4hb	1.447	5,551	6,021	5,804	5.819	5.826
Nondurable goods industries Chemicals and allied products	36,789	36,714	37,172	37,486 .	8,169	38,015	37,606	37,474	7, 484	Sr, 451	55,661	37,247	37,487 :	37,304	37,042	37,444	37,708
Petroleum and coal products	2,320	2,394	2,485	2,525	2,452	2,638	2.348	7 18 0	2.722	341	1,434	2,507	2,532	2,781	2,862	2,842	2,743
All other nondurable goods industries	24,292	24,179	24,565	24,727	24, 21.2	24,576	24,386	23,648	23,864	1,817	2,091	24,499	24,495	23,732	23,617	2,403	24,346
WORK IN PROCESS					-		-					-					
All manufacturing industries	608, 66	658, 09	96,722	47,163	47,358	040,49		46,523	45.353	15,895	10, 50;	97.495	98,013	47,267	46,283	47.763	96.867
Durable goods industries	80,237	81,304	81,284	81,562	81,729	82,814		80,362	74,154	811,265	51,11	81,834	82,285	81,036	8 .201	81,026	80,483
Primary metals	089'6	9,864	10,109	10,325	10,678	10,817	_	4,755	424	4,824	4, +34	10.224	10,402	10,158	9,819	9,91	9,681
Fabricated metals	17,956	18,252	7,146	7,187	7,302	7,334		7.176	7,139	1,948	7,205	7,240	7,346	7,314	7,283	7,310	7,293
Electrical machinery	13,565	13,643	13,576	13,508	13,654	13,871		13,522	13,117	13,575	13,741	13.759	13,674	13.674	13,624	13,535	13,582
Transportation equipment Instruments and related products	23,953	24,231	23,945	23,769	23,404	23,002		23,074	22,654	4.143	23,792	23,755	23,862	22,834	22,644	22,959	22,955
All other durable goods industries	3,159	3,169	3,186	3,218	3,203	3,301		3,362	3, 338	3,175	3,181	3,168	3,202	3,374	3,370	3,423	3.379
Nondurable goods industries	15,568 3.56n	15,555	15,438	15,601	15,629	16,196	16,213	16,161	16,194	15,630	15,492	15,656	15,728	16,231	16,082	16,737	16,384
Petroleum and coal products	2,689	2,554	2,516	2,639	2,800	3,026		2,451	3,003	2,743	2,571	2,567	2,691	3,044	2.975	3,360	3.191
All other nondurable goods industries	1,219	8,094	8,121	1,262	1.216	1,189		1,163	8,576	8,131	8,081	8,248	8,224	8.553	8.524	8,698	8.563
FINISHED GOODS																	
All manufacturing industries	86,834	85,899	86,559	87,391	88,492	87,664	86,863	84,001	82,356	819,98	87,310	88,448	89,053	83,887	85,162	891,08	83,572
Durable goods industries	47,841	47,342	47,590	47,408	47,435	47,153	46,138	43,744	42,835	47,854	48,624	49,297	700,64	971,74	44,958	608,44	44,328
Primary metals	3,274	3,239	3,260	3,221	3,255	3,387	3,345	3,071	3,015	3,296	3,322	3,426	3,403	3,147	3,149	3.257	5,163
Fabricated metals	5,199	5,260	5,197	5,165	5,158	5,165	5,187	5,050	4.871	5,14,	5,309	5,379	5,335	4,934	5,155	5,140	5,086
Electrical machinery	14,498	14,318	5,784	5.867	13,991	5.976	5.924	5.575	5.523	14,640	14,740	14,872	14,582	5.652	5.818	5.857	5,747
Transportation equipment	4,648	4,556	4,622	4,793	4,577	4,529	4,276	4,166	4,244	4,645	4,583	4.642	4.810	4.050	4,193	4,103	4,172
Instruments and related products	5,668	2,412	5,408	5,367	5,491	2,441	5,742	2,313	5,318	2,483	5,730	5.721	5,710	2,330	5,743	5,732	5,650
Nondurable goods industries	38.993	38,557	38,969	39,983	41,057	40,511	40,705	40.257	39,521	38.764	38.686	34,151	650.05	39,741	40,204	40,389	34,244
Chemicals and allied products	9,102	9,223	9,333	9,753	9,818	9,853	9,424	9,206	8,666	4,043	9,171	9,392	9,883	9,068	9,141	9,147	8, 406
Rubber and plastics products, n.e.c	2,569	2,753	2,754	2,773	2,753	2,661	2,819	2,760	2,671	2,514	2,799	2,894	2,977	2,727	2,803	2,855	2,879
4	100103	25,733	670,77	77. 340	707'67	757,527	466,27	22,030	0/4.77	040477	770177	172,177	1,0,77	064177	200127	1	
Preliminary. Revised.																	

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

			Pe	rcent chang	e				Revision ²	
****	M	onth-to-mon	th	Avera	ige monthly	rate of ch	ange ¹	Year	Average	monthly
Item and industry group	June 1982- July 1982		Apr. 1982- May 1982	Second quarter 1982	First quarter 1982	Fourth quarter 1981	Aug. 1981 through July 1982	ago July 1981	July 1981 through June 1982	July 1977-1981
Shipments:										
All manufacturing industries	+0.6	+0.4	+3.0	+0.8	-0.4	-1.7	-0.4	0.2	0.2	0.3
Durable goods industries	+1.1	-0.8	+3.1	+0.3	-0.4	-2.2	-0.6	0.4	0.3	0.9
Nondurable goods industries	+0.2	+1.6	+3.0	+1.3	-0.5	-0.5 -1.2 -0.2		0.2 0.3		0.7
Inventories:										
All manufacturing industries	0.0	-0.5	-0.9	-0.6	-0.4	+0,1	-0.1	0.1	0.1	0.2
New orders:										
All manufacturing industries	+2.0	+0.2	+1.2	0.0	-0.1	-2.2	-0.6	0.5	0.3	0.5
Durable goods industries	+4.0	-1.5	-0.6	-1.4	+0.6	-3.3	-1.0	1.2	0.7	0.9
Nondurable goods industries	+0.2	+1.8	+2.9	+1.3	-0.4	-1.2	-0.2	0.4	0.3	0.6
Unfilled orders:										
Durable goods industries	-0.7	-1.4	-1.2	-1.0	-0.3	-0.9	-0.6	0.2	0.1	0.3

[~] Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	rentoriess	hipments ra	tio	Unfil		-shipments backlog)	ratio ¹
	July 1982 ^p	June 1982 ^r	May 1982	April 1982	July 1982 ^p	June 1982 ^r	May 1982	April 1982
All manufacturing industries	1.69	1.70	1.72	1.79	3.64	3.71	3.71	3.86
Durable goods industries. Stone, Clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products.	2.31 1.68 2.86 1.92 2.90 2.22 2.19 2.36	2.34 1.66 2.86 1.98 2.84 2.32 2.22 2.34	2.32 1.66 2.89 1.95 2.80 2.27 2.24 2.33	2.41 1.74 2.84 2.02 2.88 2.34 2.43 2.49	4.45 0.50 2.63 2.83 4.39 4.55 11.04 1.80	4.52 0.51 2.58 2.95 4.38 4.70 10.96 1.78	4.52 0.52 2.55 2.92 4.46 4.58 11.23 1.85	4.71 0.54 2.50 3.12 4.68 4.68 12.41 1.95
Nondurable goods industries Food and kindred products Tobacco products Textile mill products Paper and allied products Chemicals and allied products Petroleum and coal products Rubber and plastics products, ne.c.	1.10 0.87 4.79 1.53 1.32 1.43 0.53	1.10 0.85 3.48 1.51 1.36 1.44 0.52	1.13 0.87 4.27 1.57 1.39 1.48 0.52	1.18 0.91 4.16 1.61 1.37 1.55 0.59	0.52 (X) (X) (NA) (NA) ((X) (X)	0.54 (X) (N) (NA) (NA) (X) (X)	0.55 (X) (X) (NA) (NA) (X) (X)	0.57 (X) (X) (NA) (NA) (X) (X) (X)

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

The revisions are the differences between the month partner and the fraction that the first precisions are the differences between the month parent partner thanges are the simple averages of the differences, without regard to sign, for the month, specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums. farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal peducts; and cubber and plastice products, nece.c.

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CURRENT INDUSTRIAL REPORTS

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DEPOSITOR

Manufacturers' Shipments, Inventories, and Orders

AUGUST 1982

U.S. Department of Commerce
BUREAU OF THE CENSUS

M3-1(82)-8 FOR WIRE TRANSMISSION 3:00 P.M. E.D.T. FRIDAY, OCTOBER 1, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in August declined \$4.4 billion or 2.8 percent from July to \$154.1 billion the Department of Commerce, Bureau of the Census reported today. The August decline, which is the largest since a 4.9 percent decrease last October, followed three consecutive monthly increases. Manufacturers' shipments also declined in August, down \$3.6 billion or 2.3 percent from July to \$157.7 billion.

The backlog of manufacturers' orders in August declined \$3.6 billion or 1.2 percent to \$299.6 billion, the thirteenth consecutive monthly decline in the series. The book value of manufacturers' inventories showed a slight decline from July, down \$0.3 billion to \$274.6 billion. Although inventories showed declines in eight of the last nine months, the rate of decline has slowed the last two months.

Of the \$4.4 billion decline in total new orders in August, orders for durable goods declined \$3.1 billion or 4.1 percent to \$73.3 billion. This more than offset last month's durable goods increase of 2.5 percent. Within the major industry groups the largest declines were in transportation equipment, electrical machinery and primary metals orders. The transportation equipment decline of \$1.8 billion or 10.3 percent to \$15.7 billion was concentrated in the motor vehicle and parts and shipbuilding categories. The electrical machinery decline of \$0.7 billion or 6.0 percent to \$11.7 billion followed a 5.9 percent increase last month. The decline in primary metals orders of \$0.5 billion or 6.0 percent to \$8.1 billion followed four consecutive monthly increases and dropped orders back to the level reported for April. New orders for nonelectrical machinery increased in August \$0.8 billion or 6.2 percent to \$13.7 billion.

New orders for nondefense capital goods in August declined \$1.0 billion or 4.8 percent to \$19.3 billion, offsetting last month's gain of 5.4 percent. New orders for defense capital goods in August were up \$0.7 billion or 14.6 percent to \$5.4 billion

The 2.3 percent decline in shipments of manufactured products reflected decreases in both the durable and nondurable

sectors. Within the durable category, which was down \$2.0 billion or 2.5 percent to \$77.0 billion, all major industry categories declined with the electrical machinery and miscellaneous durable goods industries showing the largest decreases. Within the nondurable category, which was down \$1.6 billion or 2.0 percent to \$80.7 billion, the food products industry accounted for about 3/4ths of the decline. Shipments of food products were down \$1.2 billion or 5.3 percent to \$22.0 billion. Shipments of petroleum products and rubber and plastics products also showed declines in August.

The August decline in unfilled orders of durable goods manufacturers was the 13th consecutive. Since July 1981 unfilled orders for the nondefense capital goods category in August declined \$2.4 billion or 1.8 percent to \$129.7 billion. Since January 1981 when the backlog peaked at \$157.0 billion, unfilled orders for nondefense capital goods have declined 17.4 percent. During that same time period, the backlog of orders for defense capital goods increased 34 percent from \$63.5 billion to \$85.1 billion.

The book value of inventories has declined 3.9 percent since last November when the level peaked at \$285.8 billion. Both the durable and nondurable goods categories have been decreasing. Inventories by stage of fabrication during that time show materials and supplies declining 5.6 percent, work in process declining 4.2 percent, and finished goods declining 1.7 percent. The inventory to shipments ratio during that time has remained relatively steady; the November ratio was 1.77 while this month's ratio is 1.74.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for September is scheduled for release on October 22, 1982, and full report is scheduled for release on November 2, 1982.

The method of seasonally adjusting shipments data for the motor vehicle assembly industry for July through September has been changed this year and is now consistent with the traditional X-11 approach followed for other industry categories in the survey. Previously, an estimated seasonally-adjusted monthly average for the third quarter was used in each of the 3 months to compensate for the erratic monthly movements which occurred during this model changeover period. The change in procedure was made because the seasonal pattern in the data has become somewhat more stable, and the data series subject to smaller historical revisions.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

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	TOTALS										t		1	· ~	İ			
	All manufacturing insustries.	, .	1+1,5*	151, 11	150,7.8	7.7.	, , ,	7.	7	:	11.11	1.1.		<1, , , ,		7.4	.'.	1111, 25,5
	excluding transportation	11 .	*	143, 441	1+3,-1+	1000	1 1		4,13	18 ° 181		5 ,1 1, 5		141,1,8	3, 45	1	*	1, 1 ans, m
	Unfilled orters	£	× ,	x, , x, 4	83, "	244,142	2001110		* * * * K			- 1, 1 1/2	2,16	5 mC 1 w	1,00	10,00	, .	
	Burable goods ladustries	i	,	£ 57 .	79, 18	11,155	147,4		11,11	196.	- - - -	t t			:	1	,	7
	orders	1 3 34 3	61.13	61,884	111,444	10.200	1 1 1 1 1 2 2	13	11.11		11,135	4	1 1,285	Pet 194	186.4	11,40	1,013	351,33
	Nondurable goods industries	M. 1, 7	ž , x	8.7.41	-1, 51.	A	. 11, 3,	. *** 555	÷ ;		, , , , , , , , , , , , , , , , , , ,	×1,4,0	, t	1,1,1,1	97, 15	85,38	· · · · · · · · · · · · · · · · · · ·	
	orders	2.5	14. tac	24, +44	24, 45%	K.	X	7	· .		X+5.	le, d	, 3u	× 10 . 1	17,13.	12,000		335,744
	WARRET CATEGORIES																	
	Home goods and apparel	116.45	10,708	10,858	2 7, 12	100		- <u>x</u> - <u>x</u>			11,11%,11	=		7 8	2 2 2 2	1		30,124
	Equipment and detense products, oxcept automotive		7	1.7	11,00	1 7	= 1		-	E	10,000		7.7	£ -1	, r	7	77	2007.54
	construction materials, supplies, and intermediate products	11.4.00	-	11, '.	12,138		,	;			* F		13,.14	******	1 1	13, -1	. 1.	;
	Other aterials, supplies, and intermediate products	4.8,777	1.	1 6,4,1	7 180	.11, "	201,138	1.	1,131	1	3, 48,	1, 4, 8	6, 115	1,688	8.1,18	3 7 7 7	161,138	617,324
	SUPPLEMENTARY SPICIES?																	
	Household durante goots infas- tries tries containes Nonteines Defense	1411	- 1 X 2 X X X X X X X X X X X X X X X X X	1 5 5 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1		1335		în î	= 11	4/43	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		13.55 13.55	1587	31,55	7 T 7 T 7 T 7 T 7 T 7 T 7 T 7 T 7 T 7 T		
	INDUSTRY GROUPS AND INDUSTRIES									-								
2.5	Durante goods industries, Stone, clay, and glass, products,	3 3	3,74 ,	20,47	- x 5		1,1	55.11	, s	- 1	401,1	7,	70 E	11.55	5,547	, x2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	£ 5	33,387
333	Primary metals Rlast furnaces, steel mills	3, 5, 5, 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3, 48	3, 194	10.0	770	15,67	44.7	- - - - - - - - - - - - - - - - - - -	2,12,12	3,451	5,773	5,542	12,924	2,1,2,1	112, 491	48,119
34	Fabricated metal products	5,837 4,7,3	9,884	3, 77.	3,8%	11,618	28,553	12,6.7	5, 1 B4 4	2,1,1,2	3, 446	20, 544 30, 244	10,701	4,24,4	11,400	10,814	41, xnr	38,215
341 35 351 352	Metal cans, barrels, and drums. Alachinery, except electrical. Engines and turbines. Farm machinery and equipment.	14,715 14,715 14,45	14,874	15,488 1,152	875 15,809 1,209 1,1.8	2,742 46,819 3,657 3,103	3,764	51,7.0	13,734	13,51	1,758	15,810	15,135	15,374	1,033	16,720	17.5.11 8.5.5.5.11	133,405
353	Construction, mining, and material-mandling equipment. Wetalworking machinery	37.5	888	2,479	2,815	2,582	9,164	10,025	.,463 RN3	2,084	3,090	18.5	3,178	3,121	3,281	3, 1509 11, 5, 11	7,575	7,441

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES - Continued

							(Millions	(Millions of dollars)	_									
				Season	Seasonally adjusted	pe						Not s	Not seasonally adjusted	adjusted1				
			Monthly	hly		9	Quarterly					Vonthly					lear-to-date	
ź	Industry	\$ 100	200	Link	Mar	-	-	-		Last 4 months	ths	-	Last 4	Last 4 months a year	year ago			
		1982 ^p	1987	1+62	1987	1985	1982	1961	Auk J	1 487	June 1	Max 3	Auk.	1481	June 1981	Max. 1.983	1485	1481
	IMESTRY CROUPS AND INDUSTRIES Continued																	
	Durable goods and injustries																	
36 301,2	Electrical machinery Flectrical transmission and	11,488	12,108	11,639	11,91.	35,238	34,17.	34,285	11,183	10,074	12,504	11,716 1	11,44 5	10,400	27.4.5	D5+4 II	11,714	100
Ě	distribution equip ent and industrial apparatus	1,673	1,731	1,715	1,777	5,222	5,307	5,50%	1,415	1,000	1,548	1,810	1,134	1,14	1,513	x, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	15,948	38.83
14. 409	Communication of about the	3,724	777	5,723	3,800	2,095	2,028	1,964	3,591	3.054	769	3,845	718	5.41	3, "nt ,	1,456	2.85	15. S. S. S. S. S. S. S. S. S. S. S. S. S.
35.7	- 1 1	17,6455	17,800	2,484	2,512	269,00	7,087	7,114,	14,665		18,183	18,104	5,055		1,336	100	25, 25, 25, 25, 25, 25, 25, 25, 25, 25,	1× ×75 36,73.
377,6	Aircraft, 1351les, and parts	5,270	5,306	5,661	5,590	15,183	15,246	16,970	5885 1000 1000 1000 1000 1000 1000 1000			2,04.0			5,035	1,53,1	1,55	10, 21
37.45	Shipbuiling and military tank vehicles	84.5	98,	676	444	2,825	, H39	.,837	8.1	70 %	x 65	1,047	1,008	13 7	1,447	1,52	7,38"	100
381-4	Instruments and related products. Schentifix and engineering. Photographs goods.	3,891 2,319 11,375	2,74	2,314	3, 488 2,336 1,408	0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	11,628	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	212	200	5 7 9	3,755	7,8/2 17,1,1	2,412	12,11	1,471	18,321	18,187
75 55	Wil other durable goods industries	7,534	8,11.6	7,854	7,76+	7	33,477	÷.		1 20 T	3,14	7, 4, 1	E5. 'x	1990	1 98 9 7	1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to	-16.14	
207	Nondurable goods industries Food and kindred products West products	22,033	23,277	23,315	23,018	68,635 18,483	67,182 17,285	05,250 17,928 8.282	7.,085 F,141	5,954	18,81	2,722	22,084 6,302 2,950	21,301	5,402	5,830	78, 130 ;	17x, 453 45,117
207	Fats and oils	1,313	1,436	1,430	1,405	4,312	25, 47.3	2.,770		1,331			1,571	1,448	1,484	77.17	11,25	12,576
E SI	Tobacco products	1,745	1, 1, 1	1,551	1,11.3	12,423	3,378	3,314	1, 79	1,054			74.7	1,132	1, 4,	55. 7	1261	X * 12 * 17 * 1 * 19
15.	Paper and allied products	2,598	4,47×	0,420	217.7	7, 488	177 17	1000		0 20 2		2,7,2	x x x x x x x x x x x x x x x x x x x		5,547	5 2 2		, i
25.8	All other paper products Chemicals and allied products.	2,407	25.5	14,595	1,1217	7,793	41,050	17,70	1,17	1227	5,15		2,336	3,635	1,000	5,114		17,14
781,6	Industrial chemicals, ev-	4,570	4.547	4.626	25.7	15.589	13.801	14.7.74	4,155	ê î	_			4.847	857 5			7 10
245,4	Drugs, soap, and tolletries	4,197	17,640	17,592	3,455	11,155	11,1151	7007		17.5		3,001	3,513	1,371	3,477	5,55		10,41
2	Rubber and plastick products,	3,578	5,8417	3,762	3,549	11,831	16,581	11,258						3,714	4,117	3, 103		11,450
323	All other nondurable goods industries	11,749	11,740	11,374	11,585	2.5.40	35,273	34,758	5,	65.411	11,55	11,391	12,364	11,41%	11,550	, ,	21 p. wr.	, 75 , 75 , 75 , 75
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Against and we obtain the period and are adjusted for trainages and telegons—could variations, unfilled priors and meaning the period and are adjusted for trainages as follows.

The supplementary across are represented training statements as follows.

The supplementary carries are reproduced at the period of the articles and periods, and hardened appliances ratio and IV, and the subject of the supplementary of the supplementa

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341,484 43,282 11, 584 144, 118 34, 313 37,541 84,346 134,85) 33,363 44,339 48,411 27 % 45 5,822 12,140 553, 860 11,826 18 13 1.841 10,084 10,084 11,874 1 067 3,343 73,681 10 pt 1 3 768 9 563 13.781 1,291 2,087 1 4.57 Van 25,654 . . 7 28 4, 085 8, 24 s 3,425. 9,885 14,478 2,351 819 1,078 . 174 11, 8541 27 836 47 838 3 439 111, 0803 ... 100 111, 9502 11, 173 27, 548 44, 063 1, 347 - 4 ... 3%. R 2 2 2 \$183 783 585 285 a teamstily witnessed ,× 3, 741 9,405 14,408 1,338 2,258 3,939 4,389 13,015 45, , 900 217 27 19, 238 344 740 22, 580 11,550 17, 486 Durable goods teniestries
Stone, tlay, and glass,
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Hast transce, steel mills,
Wonferrous and other pertury
Wartered metal products
Wartered metal products
Wartered metal products Engines and turbines.....
Construction, mining, and
material-handling equipent.
Metalworking "actinory.
General industrial machinery. these goods and appared to occur while a partial and octure positions, about the account of a constitution of a partial and a constitution of a partial and orders.... Industries without unfilled SUPPLEMENTARY SERVES? Sonite goods industries...

see footnotes at end of table.

Table 2. VALUE OF WANTEACTURES! NEW ORDERS FOR INDUSTRY GROUPS, MARKET - TREABELS. TAP SCRIENTARY SPRIES. CONTINUED

		icar f redate		1481			450,000	15.5.7			2 24,115		134,013	1611-1	10,731		3 31, 53	A 08,38
		ital		1982			1, 1		2. 33	200	35, 40 2	14,11,74	77	42,419	5,937		57 73	n 1, 1×5
				Ma, 1981			11,7+7	5	1,143	516	3,633	15.50	10,300	5,506	705		2,383	8,700
	44		fast 6 months a year ago	June 1981			13,106	1.92	1, 5,4	1,150	67 166	10.493	10,11.9	4,455	545		7	4,117
	ly adjuste		4 months	July 1981			lu, S4.	1.673	1,039	537	5,293	2.156	10,01	11-1	3,1		2,1.7	7,975
	Not seasonally adjusted 1	11v	Last	Aug. 1981		-	11,761	756.1	1,096	863	3,507	14,000	1000	4, 336	1,575		2,040	8,517
	No	Monthly		Man 1982			11,532	1.739	1,035	164	3,466	2,617	100+11	D . 1 4 7	95 7	200	3,770	7,950
			son ne	June 1982			1 ,106	1,470	1,112	831	4,349	17, 130	711617	. R . ,	697		T T	8,194
			Last a mon ns	July 1982			10,651	*(17)	1,1.27	18,	1,736	2,171		, 1 ' ,	ž,		1,4,7	7,441
1,5				Aug.			11, 326	0.70	1,11	6.7	0,000	27.74		1, 6 25	157			7,954
Willions of dollars)			IV	1981			34,146	5, 308	3,036	1,787	10,883	1 2 36		15,173	24.45	11 07.	11.97.11	23,565
(Millions		Quarterly	-	1482			36,615	5.044	3,007	5,639	12,988	091'/			1,89,	11 0.1	11,011	23,983
	7		=	1462			36,101	4,624	3,086	7,161	12,932	1,528		15,193	2,080	11 603	000411	22,831
	Seasonally adjusted		Max	1982			11,888	1,738	1,050	2015	3,352	108,5		4,854	711	2000	1,021	7,77-
	Seasona	,	lune	1980			11,705	1,396	1,007	653	1,508	11 62		4,560	877	1 76.7		7,918
		Monthly	arg.	1985			12, 195	1.68)	1,058	713	4,443	Z+44h		4 . 4 . 5	, 46°	2 80.3		£
			Allo.	1982P			11,153	1.454	1,118	163	4, 324	2,293		184 47	100	1 6 1%		314
			Industry		INDUSTRY GROUPS AND INDUSTRIES	Durable goods industries		distribution equipment and industrial apparatus	Household appliances,	Radio and TV	Communication equipment	Transportation equipment	Mircraft, missiles, and	parts	tank volticles	Instruments and related	193 Agher durable coods	andustries
			SIC				36		363	34.	366	3.7	372,15	37.33	3795	200	24	×: %

Revised.

"Site of the colds for the period and are adjusted for trading-day and calcular-worth variations untilly orders, and inventories are as of the entrol and are not aliasted for the period and are not aliasted for the against trading-day and calcular-worth variations are calcular-worth variations. The supplementary entres are regroupings of the against trading-day and period of the period of th

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TABLE 3. THE OF WAY OF 12 IN CO. AND MARKS OF INCIDENCE OF SECTION OF TRANSPORTED SHIPS.

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			Appearly	als.				. la ., are						Vante 1s	15.			
11:					,							+ - >	** *	, ,	Tax.	4 9rts 4	Livar as 3	
		1.48%	1.37	107	145.	. 28.	: <u>:</u>	i i	7 E	- 10	2 48, P		June 1+8.	78. 2+5.		1181	1461	781
	PHMS								1		1	,		Ī	1			
	Will manufacturing 16 feetities	1 44,525 1	\$115,1.5	ton out	*	1, 134	3.7 6.4	Ē.	1 3		7.	2 . 5 . 4	ė ė	31	*2 3	200	1	
	Manufacturin, industries excludin, tribsportation,	1+1,1+1	1 41, X 7,	1 5			3			7,	1-4.3		:	1	. 14 . 4 .	:	111	11.
	· Baralle goods industries	145 , Sa.	17.17.54	. de dete.	1.1	· ·		, r , r , r , r , r , r , r , r , r , r		17 79	7	, Y , Y ,	4 5.	1	X	45 45		9.5
	you tarable goods industries	4,043	r . 45, 4	r. line	E H	1.64.		1				;	7.	7	11.25.	in 30.	¥	11 6
	MARKATI CALEGORIES																	
	the e groups and affaired	35,74 }	3,355	, N. 7.	₹.	; ;	;	,	1000	*	7	5.7	ξ,	*. *. ?*	-	ěi č	1	1
	between autocourse,	1 1 3 5	18.,33	: 4		:	**			72 22 7	18.,15	1 * 3 , 3.	15r	15. 40.	7	1 so of c	1 ,	141 174
	and inter-cliate products and	14,147	1.,070.	15,1	16.04	4	1	***				1	<i>‡</i>	* * * * * * * * * * * * * * * * * * *	12,0,71	16.1.78	17,44,	Ĉr. ∠T
	Inter-ediate prolities	- H + 1+	, X		, , ,		1.00	*	114, 7 34	11	1, 30	, r	41.4.1	1 11,421	123, 336	11- 103 I	11, 35,	.15.602
	SUPPLIMENTARY SERVICES											ī						
	Household durable goods to liss tries (aptival goods to liss Nordelense:	114, 241 104, 251 104, 254	13. 13. 13. 13. 13. 13. 13.	\$2.50 ~4.51	8.3x . 1. 2er . 1. 5.4.	1, 100 1,	17.4	3/13/2	154.	P / (1)	2 1 2 2 2 2 2 2 2	1,05x 214,74 102,14	11 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111	224, 34 153, 545 153, 544		1000	125,431 126,431 6,038
	INDUSTRY CLOUPS AND THE																	
9225	Duracle gools industries Stone, clay, and glass Pricary of als	1,7.8	1,00	22, 430	21.76.2	23.45.	7.2.1		2, 33	18. 18.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2,7,7	1,7,1	13,562	2,273	2.352	20,547	2,341 30,612 18,348
4023	2.9	5,373 2',198 50,619 15,289	25,788 (E,458 115,470	6,385 65,465 17,066	6,414	28,334 07,343 16, 34	, 500 16,411	8.7.78 40.4.76 74.50 1.183	7,105 7,105 17,711	2.5.53 74.16 17.718		25 1 1 2 2 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1	6 3831 15 316	6,574 27,463 66,164 15,827	8,262 30,463 74,130 17,013	8. +27 31. /54 74. 714 17. 334	8,540 30,624 75,116 17,504	8 403 30,583 75,154 17,632
20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	Construction, singles, and parterial should be a to prevent Wetalworking sachine P	8 7 7 7 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3,133	3,332	7,41 s 6,424 6,221	3, 4, 301	1,814	31,424 3,742 6 815 1	40,47	4, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	5,112	5.1.5	3,384	3,423	11,266	11,311 6,208 6,752	10,484 6 4.0	10,553

to Contractor, of most of condu-

Table 3. VALUE OF MANUPACTURERS' UNFILLED OFDERS FOR INDUSTRA GROUPS, WARNET CATECORIES, AND SUPPLEMENTARY SERIES-CONTAINED

1							(Millions	(Millions of dollars)	-3.1									
					Seasons	Seasonally adjusted	pa						Yot	Not seasonally edjusted	e ofpusted	5.		
			Mont	Wonthly				Quarterly						Wonth1,	11.			
SIC	Industry group	Aug.	July	June	May	hr	VI	III	11	I		tast 4 ronths	-onth-		la.	last 4 months a tear ago	A tear are	
		1982P	1982	1987	1982	1982	1981	1481	1981	1981	Aug.	July 1982	June 1982	Vay 1982	Aug. 1981	July 1981	June 1981	V8v 1981
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries																	
3n1,:	Electrical machinery	55,108	54,942	54,655	54,588	53,784	51,939	52,028	50,778	101,64	54,887	54,747	54,750	54,999	51,285	066,00	50,911	20,237
	industrial apparatus.	7,576	7,794	7,844	8,163	8,442	8,705	8,906	6,849	8,800	7,014	2,810	7,904	8,282	8,947	8,440	8,913	8,992
 	Radio and TV.	295	340	304	332	323	333	383	429	419	305	1.26	327	343	417	000	000	6 2 2
44	Consummention equipment	34,254		33,268	32,413	31,690	29,097	29,423	28,239	27,019	33,652	33,22	33,650	32,71	28,247	28,174	28,073	27.743
323	frankDortathan equipment	11,543	11,711	11,714	12,088	11,852	113.709	11,435	11,077	11,296	11,711	11,854	11,937	12,173	11,884	11,851	11,887	11,730
17.2, h	Aircraft, "issiles, and	10,841	91,178	91,494	92,613	92,483	87.207	89.054	87.525	88 151	717 68	287 182	91 008	100	010111		010,011	110,413
57.	Shipbuilding and military tank vehicles	18,-13	19,237	19,301	19,413	19,503	19,449	19,993	19,732	19,110	27,496	12,4,51	14,056	19,500	19,933	19,31+	14,49	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	products	7,115	7,169	7,128	7,367	7,362	7,189	7,112	7,034	b, 984	7,157	7,316	7,202	7,345	7,133	7,224	7,116	0.480
, š.	industries	4,420	4,564	169' ~	5,901	5,313	4,801	4,931	4,931	4,839	4,710	N.D.C.	7428,1	4,843 5,204	5,204	5,236	5,114	5,187

Assuments and new others are necessarily and a straint and

					Seasona	seasonally adjusted							No	Not seasonally adjusted	ly adjusted	P		
			Monthly	٨			3	Quarterly						Monthly	113			
SIC	Industry					,		. ;				Last 4 m	4 months		Last	t a m nths a year	a year ago	
		987 p	1987	1985	1982	1962	1981	1981	11	1481	Aug 1982P	July 1982	June 1982	May 1982	AJE	71rl 1981	June 1981	Way 1+81
	INDESTRA OROTPS AND INDESTRIES-																	
	formally goods radustrates ==																	
36	The trical machinery	26,898	26,834	26,950	7,0,4	935'12	28.142	2x 113	27,234	.6.513	20,939	27,078	27.47.	27,739	27,848	7 744	27 763	4.9.
	distribution equipment and	4,519	4,231	4.376	4.361	171.1	4.500	4,710	4,462	4,280	562,4	4,304	ž. 1.	69***	4.541	, · · ·	4 515	1 2
363	Household appliances	1,842	1,426	1 886	1.653	1,895	2,044	2,050	1,951	1.844	1,817	1,951	1.98.1	010 2	£ 3	1 5.74	45	KG
360	townsultation equipment.	2,00	9,324	10.0	4.349	4.410	9.317	7	45	9,153	97017	9,307	9,358	0. + 1.6	2.	4,24	8.	110
37	flactions components	39,775	39,334	170 174	18,7.1	38,150	38.23	100,000	3, 586	77.42	5,574	38,313	38,651	68,643	37,946	5 F. 7.	5 518	7 5
371	Annual rebules and parts	27,76"	27,072	0 84.5 0 84.5	264.0	6,673	47.79	4,5,6	5,5%	8 8 5 F	3,668	27.285	26,368	5.4.78	[04] t	7 52 7	25.	2.5
373.	Shipbuil hay and military	1,585	1,584	1.672	1.342	1.9 9	181	7	\$	16	1,5×8	1,623	1,682	7 2	401.5	1	- 2	15.
38	0	9,364	7	4, 34,1	4 30.5	772	6.61	7	, ,	EX.		667	47.5	7	7	5,	7	4
381-4	Strentlic and engineering	2,287	2,288	6,000	16	100 ·	5.537	0 4 5 0 5 0 5	6 18.9	6 184	200	2,330	2,368	37.6	5.58	0 X	267	
45.2	All other terable goods	14,161	14,317	14.27.	- T	14 +04	1 00 1	15 141	17.00	33. 14	14,143	14,286	14.377	14,186	15,065	, 4,	21+ +1	14 974
2.	Nondantable goods industries	20,490	20,178	17.630	29 140	30 +03	. J.40	175.7941	21,796	21.583	160,02	13,226	918 81	13, 444	20,868	21,357	26.18	0,443
201	Mart products	1,801	3 524	1.803	1.933	1 934	1,711	1 840	1,449	2, 41	1,717	1,755	1.830	1,952	1,794	1 673	1,495	1.995
	Fats and ats	1,235	1,335	1 101	1,389	1,798	1,403	3	715	1,651	566	2,149	1.204	1, 1, 2, 2	1.770	1,309	1 394	1 2+1
203 6 9	Tobacco products	12,231	4,893	11 413	4,812	4 572	11.884	986. +	1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1,5 411	12,219	11,243	10 575	10,793	1,750	11,867	26° II	
27	Textile mill products	6,396	9,428	6, th.7	5,501 x x 1.5	6.587	7,411	7,008	7 1 2 X	4,812	5,352	277,0	0.470	6 7.75	17,0	1,477	7.5	
261 1	Pulb, paper, etc.,	3,036	3,608	3.575	3,590	3,541	3,401	1 . 75	3,100	4,115	3,634	3,522	1 6 23	240	3,,769	3, 1.08	1.10	3, 146
26,	Paperboard containers	2,303	2,222	167.77	2,298	2,312	39.	7.7	7.1		.,317	295	2 378	340	2H.7	7 4		- 3
. 82.	Cherreals and allied products	20,678	20,798	5.6.02	1,889	01.406	21.615	1.35.1	. 16.77	E	20+402	10,750	80%	11,1%	7	[F4		2 1
18: 2	Industrail chemicals, except	6,432	805,0	r , 540	0,53.	7.363	3,46	, x,	+ , 86.4	1,84,4	. H.D.	£ C+	0.01	13.0.4	1 2,4 1	7.	ī,	,
283.4	fitus stap, and tolletries .	6,423	6,423	25	86.4	5,590	91.0	23	3.00	9+I	5,5,5	5,485	11 1	5.7	17.			- :
- m	retroless and coal products			1 1 1		17.731	10,044	(10,01)	, p. 14	15.00	Ĭ. + 1,	7,55,7	- F	70.7	7	I' vI	11 +1	1
-	0 t.d	5,806	1,868	677. 4	5 115	6 153	2, 188	5 T 3T	5.50	6,144	5,691	5,848	61.143	ć L	7	2 2		7 7
755	All other road rade goods	15,095	14,497	, ₁	. · ·	£ 7	27.6.28	15,015	14,5,5	1.1	15,247	15,81	15 12	2.2	1.23	1 583	· c	1.

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lectifical achieves	12, 44 1	18,000	. 41	* * * * * * * * * * * * * * * * * * * *	1 1 1	1 . N. 1	2 2		1 1 1 1	37.5	37,4		7 7 4 7	14 056	18 661	18 415	114 71
Spatistic Calmenters		1 40 1			7					, ,	0 4 7	7	2	3.16	, , , , , , , , , , , , , , , , , , ,	1 1	7
All other lumble gred. Industriction.	Ç.5.	1 -	141	113			, 1 s	1.30		1,1,4	2.1.	7.181.5	1 164	2 3	1.7	7	, ,
able goods transtrites	1	1 , 114	12.	11,400		, n 14n		19 Je .	14.14.1	7	15,174	7 1	15 6.6	N 4	16.241	3 4	1
cole and althou products		79.4			-	4	7 77	11.7.		1 2			. 45	147	7 7	94	
flubbor and plastics products, n.e.e	1.6	1,245	8,04.	4 4	-	1,154 x 91.1	A. snn	× 1.75	1 g	1, 20.7	3 T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+ 10 m	1,1,4 4,8,8	1 181 x 551	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	. 15u
FINISHED COURS																	
All manufacturing injustries	, 440°, 40%	May an	7 x	85° 1 188	7 7 4 9		t dh. m	84,111	A 5 SA	** 23.	115,00		E 1 1 10 10 10 10	84 853	, 4.4 E.D	85 11.	Xx 1 28
e goods industries	4. Alba	47,801	47, 442	065.°+	42.43		45 158	4 8. 7 au	£ 5	47,024	4.835		16 F+	65+ ++	17	7 7	7
ary metals.	15.7	0, 3, 4	200	20.0	100					4,025	0,734		7,57	0,134	2 6	4 12	. 4
Section metals	1,2411	12, 292	7, 81 12, 21×	5,147	5,158		11.211	4 4 4		10.01	101,1		2 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	7:	77. 11	> T <	12
trical machinery.	1,407	, ×17	1, 191	5,784	0,6'5	_	177	5 575 1	5.523	5,838	5,844		2.2.5	5 711	5,450	4.81x	2 847
sportation equipment	2, x 3, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	2,471	9777	807.7	7.7.			1.186 .	1.6.	4,670	4, ho?		1.58	2 114	1,33	Ĩ.,	1
other durable goods industries	5,624	5,852	5.530	5.437	c 491		5,740	5.514	5.516	15	4,594		2 7:1	5.5.2	2 57.	, ,	-
ucals and allies products	39, 161 9,061	98,808	18,557	4,333	41,057		507 07	40.257	8,555	39,148	38,582		9 392	40.39h	39 741 9 Just	9,141	40,197
Rubber and plastic, products, n.e.c.	4,147	4,255	2,753	2,754	5.279		995.5	2,760	5,736	2,490	2,513	2 792	3 936	5,552	457 50	5.5.5	2 855
other nondurable goods industries	23,360	22,929	22,433	21,823	23,207		22,494	22.538	22.478	23,484	22,778	- 1	676777	22.989	22.440	22,085	1 114

TABLE 6. PURCENT CHANGE. AND KIVISIONS FOR MANUFACTURERS' SHIPMENTS, INCLINIONED ., AND OLDERS

						Per	rcent chang	es				Proteins'	
		M.	mtl.	£ (3 =30:13]	th		Avera	ge monthly	rates of ch	ange ¹	to ma	Average	monthly
item and indistry group	July 1			1982- 1982	May 19 June 1		Second quarter 1982	First quarter 1982	quarter.	Sept. 1981 Aug. 1982	8g : Ng. 1981	Aug. 1981 through July 1982	Nug. 1977-1981
Shipments:													
VII manufacturing industries		2.3		-0.1		0.4	+0.8	-0.4 -0.4	-1.7 -2.2	-0.6	0.3	0.3	0 4
Durable goods industries		2.5		+0.2		0.8	+0.3	-0.4	-1.2	-0.8	0.9	0.4	0.4
Nonderable goods industries		-2.0		-0.3		1.0	-1,3	-0.5	-1.2	-0.3	0,2	0.3	0.4
Inventories:													
All manufacturing industries		0.1		1 1	-	0.5	-0.6	-0.4	·n 1	-0.1	0.2	0.1	0.3
New orders:													
All manufacturing industries		2.8		+1.0		0.2	0.0	-0.1	-2-2	-0.8	0.3	0.3	0 4
Durable goods industries		4.1 1		+		1.5	-1.4	+0.6	-3,3	-1.2	0.6	0.7	2.
A undurable goods industries		1.6		-0.4	1	1.8	+1.3	-0.4	-1.2	-0.3	0.1	0.4	0.4
Unfilled orders:													
Durable goods industries		1.3.		-0.9		1.4	-1.0	-0.3	-0.9		0.1	0.1	

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMINTS AND UNFILLED ORDERS TO SHIPMINI., BY INDUSTRY GROUP

Based				

(DBB)	ed on season	isily adjust	ced data;					
	Inv	entoriess	hipments ra	ti>	Untill	ed orders		atio ¹
Industry group	lug 1982	July 1982°	June 1982	May 1982	lug.p	July 1982	June 1982	May 1982
All manufacturing industries	1.74	1.70	1,70	1,72	3.72	3.67	3.69	3,71
Durable goods industries	2.38	2.33	2.34	2.32	4.57	4.49	4.51	4.52
Stone, clay, and glass products	1.75	1.68	1,66	1.66	0.53	0.51	0.51	0.52
Primary metals	2.89	2 90	2,86	2.89	2.66	2.65	2.58	2.55
Fabricated metals	1.97	1.93	1.98	1.95	2.84	2.83	2.95	2,92
Machinery, except electrical	2.96	2 95	2.84	2.80	4.36	4.42	4.38	+,40
Electrical machinery	. 34	2 22	2.32	2.27	4.80	4.54	4.70	4.58
Transportation equipment	2 25	2.21	2,22	2.24	11.47	11.14	10.96	11,23
Instruments and related products	2 41	2.41	2.34	2,33	1.83	81	1.78	1.85
Nondurable goods industries	. 13	1.11	1.10	1,13	0.53	0.53	0.54	0.55
Food and kindred products	1.43	1.87	0.85	0.87	(5)	(X)	(X)	(7)
Tobacco products	3 78	4 79	3.48	4.27	(3)	(X)	(X)	< \)
Textile mill products	1 14	1 58	1.51	1,57	(NA)	(NA)	(11)	(NA)
Paper and allied products	1 32	1 35	1,36	1.39	(NA)	(VA)	(NA)	(NA)
Chemicals and allied products	1 44	1 46	1.44	1.48	(X)	(7.1	(7.)	13
Petroleum and coml products	0.54	0.52	0.52	0.52	(X)	(7)	(X)	(7)
Rubber and plastics products, n.e.c	1.62	54	1.61	1.71	(7)	(7)	(7)	(X)

Preliminary, Revised. (%) Not applicable.

⁻ mepresents zero.
- Method calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.
- The revisions are the difference between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the difference, sithout regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

^{*!}Excludes the following industries with no unfilled orders: hood and lumber products; class containers, metal cans, barrels, and drums; tarm machinery and equipment; motor whicle assembly operation; inthe transportation equipment; foods and related products; dislaceo; apparel and related products; and including paper; de-ect paper and board; chemicals; periodicts and conditions and polarics products; and includes and plastics products, n.e...

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CURRENT INDUSTRIAL REPORTS

3-K(82)-9

Manufacturers' Shipments,

Inventories, and Orders

U.S. Department of Commerce BUREAU OF THE CENSUS

M3-1(82)-9 FOR WIRE TRANSMISSION 2:30 P.M. E.S.T. TUESDAY, NOVEMBER 2, 1982

SEPTEMBER 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in September increased \$1.1 billion or 0.7 percent to \$155.5 billion; the Department of Commerce, Bureau of the Census reported today. The increase was attributable to the nondurable goods sector where orders were up \$1.2 billion or 1.5 percent to \$82.6 billion. In the nondurable goods sector new orders for the most part reflect shipments during the month; September shipments were up 1.2 percent from August. New orders in the durable goods sector declined in September \$0.1 billion or 0.1 percent to \$72.9 billion; this was revised from an earlier reported increase of 0.2 percent.

Shipments by manufacturers in September showed a small decrease of \$0.1 billion to \$158.6 billion, with offsetting movements in the durable and nondurable goods categories. Shipments of durable goods declined in September \$1.1 billion or 1.4 percent to \$76.2 billion, while shipments of nondurable goods increased \$1.0 billion or 1.2 percent to \$82.4 billion. Shipments of durable goods so far this year total \$699.7 billion. 7.9 percent lower than the 1st 9 months of 1981; shipments of nondurable goods total \$728.0 billion for the 1st 9 months of this year, 2.8 percent less than the same period in 1981.

The backlog of manufacturers orders' continued to decline. In September the backlog decreased \$3.1 billion or 1.0 percent to \$296.0 billion, the 14th consecutive monthly decline. The book value of manufacturers' inventories was also down in September, the 9th decline in the last 10 months. The September decline was \$2.2 billion or 0.8 percent to \$272.2 billion.

Within the major industry groups, the decline in durable goods new orders in September reflected decreases in transportation equipment and primary metals orders. The decline in the transportation equipment category was \$1.7 billion or 10.3 percent to \$14.4 billion with the aircraft and parts and motor vehicle and parts industries causing the decline. The decrease in primary metals orders was \$0.3 billion or 3.1 percent to \$7.9 billion; a large decline in the steel category of \$0.4 billion or 9.6 percent was partially offset by a \$0.2 billion or 4.1 percent increase in the nonferrous category. New orders for machinery, both electrical and nonelectrical, increased in September; the nonelectrical category was up 0.8 billion or 6.0 percent to \$13.9 billion, while the electrical category was up \$0.5 billion or 4.4 percent to \$12.1 billion.

Within the capital goods industries new orders for nondefense capital goods increased \$0.9 billion or 4.7 percent to \$19.8 billion. Virtually all of the increase was attributable to the machinery industries. New orders for defense capital goods, which is extremely volatile month to month, declined in September \$1.1 billion or 20.2 percent to \$4.2 billion.

Shipments of durable goods in September were down 1.4 percent following a 2.3 percent decline in August. The transportation equipment industry showed the largest decline in September, down \$1.4 billion or 8.2 percent to \$16.2 billion. with the motor vehicle and parts category accounting for almost the entire decline. The shipments increase in the nondurable goods sector of 1.2 percent resulted mostly from increases in the food products and petroleum products industries of \$0.9 billion or 3.8 percent and \$0.5 billion or 3.1 percent respectively. Both of these industries showed large declines last month; food product shipments were down \$1.0 billion or 4.3 percent in August, and petroleum product shipments were down \$0.7 billion or 4.0 percent.

The September decline in the orders backlog reflected widespread decreases. Transportation equipment declined \$1.7 billion or 1.5 percent, nonelectrical machinery \$1.4 billion or 2.4 percent, fabricated metals \$0.6 billion or 2.5 percent and primary metals \$0.3 billion or 1.3 percent.

The September decline in the book value of inventories of 0.8 percent was the largest since the 0.9 percent decline in May. The nondurable goods industries, down 1.6 percent, accounted for about 2/3 of the September decline, with most of the component industries decreasing. The September decline in the durable goods industries reflected decreases in most of the industries except transportation equipment.

The inventory to shipments ratio in September stood at 1.72, down from 1.73 in August.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting. but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for October is scheduled for release on November 23, 1982, and full report is scheduled for release on December 2, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

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Table 1 CALE DESANTACTIONS SHERRES ON INDISITE A0010, WART ATE OFFICE SPRINGLES SALES

				and a contract	Seasonally although	erd.	W.illons	Willions of follars				Yor	s.a.onal]	Yor seasonally adjusted?	-			
							Ì	-			,					-		
			Monthly	ph lls			variation.					Wont' ly	ly .				1 10 11	1 - 5 27 4
	(n lustry)	100	1	1	27		0.0	-		Last 4 months	onth.		larst	4 months	last a conths a vent ago			
					1	° 4.	: \$		t	1 24 1	. 4	1441		1 4 4 1	7 to 1	1. 4	2	
	DIME													-				
	All canadactoring industries	138, 356	lon, nda	8 10	14. 14	474 27			A . A . A . A	1337	=	, , , , ,		Y	£	1	r	T
	Manufacturing industries excluding transportation	the set 13	1 **	11.8.570	17	*1 14		x x	1.8.1	145,57.	. X	, i		,	1 . 1 . 1 .	,	28, 38,	11
_	Variation turing industries with unfilled orders	845, 073	Sec. 9600 1	1998 - 4	, L	244,188	. **	41.14	, i	11, 12.	3.	1,		· ·	J.	17. 7	7+0, 305	, i
	Durable goots injustries	76,145	1. 40	24 194	r x x	.32, 37		4	, , F.	1 1 12+		, , ,	:		ř	1. 1	648.347	, s
	Durable goods attm antilled	11.811	6.5 814	(T. 461)	the same	. 93	4 4 VB-7	28 163	~ = 44	· I. BRB	•	-	3	ž.	2 P. 7	F 488	>86,824	**
	Nonfurable goods infustries	4 375	851.			1	***		· · · · · · · · · · · · · · · · · · ·	; ;	-		+ + ½		**	ž ž	728, 440	1, 2, 2, 7
_	orders	15,836	17	1		30, 336	2	, -		. 0.4	-	ž.	X, X	j	47.		153,480	1 7
	MARKET CATEGORIES	160 11		ž	X.	7 × × × ×	,	z	40.	1911.61	1		4	- 0	74. 8.0.	×	88	2.0
	Consumer Standes,	31,771	20,207	d the		47, 13K			33, 1	30,116	, ř			17	858	38.	269,907	161 142
	except automotive.	24,388	23,756	1, 1, 135		32,897			15,245	22,865 11,000		V	2 E	7.3	X 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1	2.0 475 98.147	14. 14.
	Construction materials, supplies, and intermediate products	111,784	11,844	-1 -7		33, 75,	:		13.15	12, 589	1		x :	13 , 14	27.4	j.	106.05.	11. ***
	Other caterials, supplies, and intermediate products	68,879	69,01.	21.1	1.	7.08, 380	n. 1.	.134	70,00	57,881	;	48.	1	÷	T. T.	- X	533, 536	N. 35 . 173
	SUPPLEMENTARY SERIES?											Ī			-			
	Housebold durable goods indos- tries tries Applid goods Industries Nondefense Defense	5,038 22,111 4,823	4,794 20,623 21,776 4,047	2 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14,970 , 60,540 06,370	4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	2 7 7 2	5, 645	5, 03.	2. 李春 \$ * * * . *	57 £ 6	\$ 1 7 4 7 . 5 4 7	2 6 V 7 2 5 V 7	\$ 0 E # 6	41.304	43,765 246,242 205,011 40,627	11 246
	INDUSTRY GROUPS AND INDUSTRIES									_								
	Durable goods industries Stone, clay, and glass products class container.	3,714 434 8,201	1,730 104 188,8	2 Ph. 2 C. 2 C. 2 C. 2 C. 2 C. 2 C. 2 C. 2	7 C E	11,208	25.15	# 1 4 % 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	113	3,957	, ; ; ;	4.165 505 8.481	2464	\$ 47 T	4.155	597	34,217	1 32
	Hast furnaces, steel mills Nonferrous and other primary retals	3,855	3,873	, 188 2 88 2 40 2 40	3,489	10,436	11,618	1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,948	3,413	3,291	4 E.U.	5.820	5.777	5 597	4.456	38,190	13 439
	Metal cans, barrels, and drums. Machinery, except electrical Engines and turbines.	15,286	14,847	1,149	15 +88 1.15.	2,603	1,742	1,84,194	7,009 15,710 1,108	1,021	11 11 11 1	1,358 16,815 1,276	1 018 18 509 1.472	1,299 1,299	1,559 15,376 1 24.	11,400 1 033 16,598 1 469	87,638 8,486 140,930 111,007	8 795 151 913 12,202
	(Onstruction, mining, and material-handling equipment. Metabavorking machinery	2,878	908	8885	2.979	8,235 2,595 3,835	8,582	9,169	2,913	2,481	823	3 090	3,270	3.178	1 155 3 021 85b	1 585 3 281 1,110	9,375 26,332 8,082	12 864 28 361 9 099
	Control of the contro			C02 T	1.134	0,000	5,743	4,204	1, 100	. 06 7 . 1	1 152	1.298	37	1.413	1.356	1 539	11,743	12 734

					:													1
				Seaso	Seasonally adjusted	per						Not	Not seasonally adjusted	adjusted.				
			Mont	Monthly			Quarterly					Wonthly					Year-to date	ate
SIC	Industry	***************************************		Inlie	- Line		-	la de		Last 4 months	nths		Last	Last 4 months a year	year ago			
		1985 p	1982 r	1982	1982	1985 P	1985	1982	Sept 1982P	Aug r 1982 r	July 1982	June :	Sept 1981	Aug. 1981	1981	1 nr 1981	1982	1381
	INDUSTRY GROUPS AND INLUSTRIES																	
	Durable goods and industries Continued																	
36.1.2	Electrical machinery	11,494	11,434	12,108	11,639	35,036	35.228	34,170	12,129	11,131	10 654	12,354	12, 197	11.465	10.44.1	3+ 31	103,746	Jul 130
363	distribution equipment and industrial apparatus	1,723	1,671	1,731	1,715	5,125	5,272	3.307	1,772	1,615	1.503	1.848	1 747 1,216	1, 9.7	1,547	1 213	15,721	15 785
365	Radio and IV.	3,698	3,698	744	3.713	2,021	2,795	2, 728	3,807	3,565	3,554	769	88.3 3 h.b	718	5,181	849	5.435	4 C 4 4 C C C C C C C C C C C C C C C C
367	Electronic components	16,153	2,442	17,806	17,573	7,344	50,445	7,007	2,530	2,359	14,767	18,983	2,526	22.52	2,182	2 336	21,862	151 934
372,0	Aircraft, missiles, and barts	5,210	5,201	5,3 6	5,681	15,717	16 183	15,746	5,485	4,822	4,895	870.0	5.48.5	5,146	7 7	F 11.035	696,440	(f. x1
3731	Shipbuilding and military tank vehicles.	576	853	686	676	2,787	2,82	9,8,5	963	829	45.6	468	983	1,018	4.48	1,24,7	8,358	8 667
381-4	Instruments and related products. Scientific and engineering. Photographic goods.	4,005	3,894	3,905	2.314	11,804	11.820	11.628	4,276	2,358	5,519	285	120	3,878	2,126	2 245 2 245 1 445 1 445	35,4.28 20,445 12,087	35,4%
24 25 39	All other durable goods industries	7,884	7,691	8,166	7.859	23,741	23,449	23 472	7 pg g	8,175	7 +87	8 192	8 870	8.538	7 894	9 0 8	71.717	2
20 201	Nondurable goods industries Food and kindred products Meat products	23,130	22,275	23,277		18,585	18,683	67,182	24,139	515,545	21,657	3,312	23 115 5 268	27,584	5,815	23,492	203,457	202,448
208	Beverages	3,067	2,950	2,971			9,315	4,305	3,113	3,145	1 331	3 + 17		1,251	200	1 251	27,546	25.254
203-5,9	All other foods	9,399	8,796	9,342		- 4	26,063	26 374	16,254	8,576	2 10 PC	4 30.4 1 38.8		107 x 10	1,72	377	80,800	25 cm
22	Textile mill products	4,102	4,193	4,074		, ·	12,423	12.5.9	4,370	4,259	715	4,547	700	(X)	3 854	4 883	27,177	39 #13
261-3	Paper and allied products	2,730	2,679	2 650			7.968	8 499	10,10	2,7,1		200	275	, s		0 7	24,738	7 7 5
265	All other paper products	2,077	2,358	2,298		4,563	0.793	6.877	1,57	1,550	27172	- V-1	100	E .	1 000		70,75	¥7. +7
281,6	Chemicals and allied products	14,434	14,551	14.739		7	177.748	41.038	14,466	13,977	17. 96.	15, 460	15 222	×	11 1131	1. 00.7	1-9,.77	134, 366
283.4	Drues, soan, and tolletries	4,476	4,6.8	4,547	4,676	13,651	15,589	13,831	4,891	4,1119	1,796	4,1472	4 405	3.534	* 44,	7 %	11,573	3, 13
29	Petroleum and coal products	17,498	16,976	12,699	17,592	52,164	51.468	+8.735	17,510	17,000	. 341	1, 230	18,199	18 617	1, 465	12 223	152,4431	let ag
200	Rubber and pigstics products,	3,520	3,590	3,807	3,762	10,917	10,831	10,580	5.641	3,587	944.1	1.H+8	4,074	4,11,74	1,714	4.217	32,580	31 + 16
23	All other nondurable goods	11,850	11,989	11,740	11,374	975,51	34,209	85 518	1746	1.,554	1149	11. 150	I. S. S. S.	l. 603	11,-11	11 , 30	10.4,110	111 111
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The supplementary warrances: ratio and TV, upurhalant goods, and whose and pottery, variety, handtools, and markene, household appliances; ratio and TV, upurhalant goods, antines, and whose, and miscellaHousehold harable goods industries—Household furniture, kitchen articles and pottery, variety, handtools, and markene, household appliances; ratio and TV, upurhalant goods, articles, and whose, and miscelladispensis and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventoring are as of the entity the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventoring are as of the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventoring are as of the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventoring are as of the period and are adjusted for trading-day and calendar-month variations. "Revised. Preliminary.

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		10 16 1 - 1 - 1		f 7		1,44,1,75	1,.54,574 1	18,040	F 24, 958	561,157	7, 7,180	152,671	5 ° 5 , 4 c 4		48,76	11.,01.	103,8,5	6,11,146		+3,440 ,34,485 186,127 +6,354		33 542 33 542	34 103 83 061 126,569 9 558	21 811 6 049 10 556
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	ot seasonal	nly	13	1841		1.			, , , , , , , , , , , , , , , , , , ,	ž	• • •	C) 2 97	1		7.2	10,853	71	77,141		2 1 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5		1 185 1 465 5.140	4, 523 10, 548 17, 589 1 562	3,120
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			last 4	4.5.		the pr		-		, x	ř	18 608	:		11	; ; ; ;	11	* :		4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 46.7 11,506 1 309	1,942 696 1,009
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	SPRNOTE	1v		118,		1 8 XX	1-1 -71	73, 72	4	64,714	:	16,743	7		11.181	25.49 E.E.47	1, ,0.08	531 169		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3,434	4,448 12,876 451	1,123
		Manthly		1,48, 7		114 4 441	1 58,236	7.	7. PA.	1, !	X T	1. 141	5.4 21.		11 days 1	21 Sec. 1	11.424	68 741		18 893		5,178	1, 165 8,897 11,041 1,051	7,150
				1987 p		610, 221	141,09.	7.,16.29	7.5, 4,79	40,473	×, , 54	17,053	1,6,5,97		11,741	11,641	11,701	nB, 438		4,991 24,631 14,789 4,24.		, 910 , 9,1 5, 190	1, 121 8,814 13,871	2.547
			Industry		TOTALS	All manufacturing industries	Manufacturing industries excluding iransportation	Wanufacturing industries with	Durable goods industries	Durable goods with unfilled orlers.	Nondurable goods industries	Industries with unfilled orders.	Industries without unfilled orders	MARKET CATEGORIES	Home goods and apparel	Equipment and defense products, except automotive	Construction materials, supplies, and intermediate products	Other watertals, supplies and infersediate products	SUPPLEMENTARY SERIES?	Household durable goods indus- trick. Capital goods industries. Nondefense.	INDUSTRY GROUPS AND INDUSTRIES	Dura St	Nonferrous and other primary metal products. Fubricated metal products Machinery, except electrical Engines and turbines	Construction, mining, and material-handling equipment. Metalworking machinery
			SIK																			331	333-5,9 34 35 351	353

See footnotes at end of table.

Table 2. VAIUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATFORIES, AND SUPPLEMENTARY SFRIES--Continued

(Millions of dollars)

				Seaso	Seasonally adjusted	ted						Not	Not seasonally adjusted	y adjusted	1.F			
			You	Wonthly			Quarterly					Wonthly	ly .				lear-to-date	date
SIC	Industry									Last + m	+ 11001164		last	4 months	last 4 months a year ago			
		Sept. 1982	Aug r 1982 r	July 1987	June 1982	1982P	1982	1987	Sept 1982 p	Aug. 1982 r	July 1982	June 1982	Sept 1981	Aug 1981	July 1981	June 1981	1982	1981
l	INDUSTRY GROUPS AND INDUSTRIES															-		
	Durable goods industries											_						
36	Electrical machinery	12,081	11,572	12,396	111,705	36.049	36,101	36.015	12,357	11,247	10,651	12,106	12,769	11.761	1.542	13,106	107, 655	107,427
	distribution equipment and	1,638	1,451	1,661	1,396	4,770	4,624	5,524	1,628	1, 417	1,409	1,47	1,869	1,954	1.672	1,970	14.678	17, 195
363	Household appliances	1,054	1,139	1,058	1,007	3,251	3,386	3,007	1,119	1, 158	1,027	1,112	1,168	1,095	1,099	1.324	57.5	111,478
365	Radio and TV	789			4.558	13, 058	10.932	12,988	4,359	3,995	3,726	4,349	4.227	3,507	3.293	4.029	38,235	33 342
367	Electronic components	2,357		2,490	2,110	7,110	7,328	7,180	2,300	2,184	2,171	2,320	18 031	15,084	15,370	2 493	21,903	12 T
372,1	Aircraft, missiles, and	3,822			4,560	13,986	15,193	20,522	4,663	3,891	4,175	100	7,001	4,336	5.411	4.955	47,835	4611 + 7
3731	Shipbuilding and military tank vehicles	428	32	847	877	1,327	2,680	7.894	1,006	334	397	9: D	1 165	1 575	9	5+5	6,954	7 7
38	Instruments and related products	4,147	3,904	3,847	3.767	11,898	11.583	11.801	4,343	3,883	3,426	7	4,189	3.840	3,724	4,421	35,102	35.54.
35 5 5	All other durable goods	7,853	7.549	8,033	7,918	23,435	22,831	23.983	8,340	8,098	7,4+1	8.194	8,658	к 517	7,975	9.417	70, 794	76 546

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languages and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. unfilled orders and inventories are of the end of the period and are not adjusted for trading-day to calendar-month variations.

The supplementary series are regions, estimate industry categories as follows from the supplementary categories as follows from the supplementary categories and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, opthabric goods, watches, and for a year was the supplementary categories.

onests proceed and the control of the previous products' capital goods and the defense products fold series) entropies and actives—control of the capital and an anothers, and series of the control of the capital and the control of the capital and the control of the capital and compared, compared and anothers, and ordanic.

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							Cullions	fullions of dollars.										
]	Seasons	seasonally affusted	1						101	stasonal	seasonally adjusted!	41		
			Monthly	raly				quarterly						Mont	Monthly			-
SIC	Industry							-				last a contha	anths		e.l	st 4 ronths	fast 4 months a year ago	
	1	138" p	1987	198.	14AC	246	1481	1481		I	0 + D + T + T + D	Aug.	1,1y	June lan,	sept 1×81	Ack 14×1	Appl	162
	TOTALS																	
	All canufacturing industries	295,950	299, 001	3.13,235	. 516 114 _c	\$11,0118	118 6,1	4, 155	· 5	, f	242,334	295, 427	1 - 1 254	115 804	F= 1.23	425 a 8	327 354	1.5k 45.
	excluding transportation	182,824	184 145	186 47	RS FX 7	11,4,	76	- 11 15-	1. 1.	1	184 .157	183,304	187 200	19.0 12.9	Sex.III.	7	7.	. 12 +11
	Durable goods industries	. Hn, 742	Ho'r wi	144	, 4t., 86t.	. ** ** ** ** ** ** ** ** ** ** ** ** **	5.1k 1k%	11.8 41.	*1	4]. Is	282, 423	29h 85 i	1994 (75)	244 AF.	112 743	314. 148	315 444	115 44
	Nondarable goods industries	9,208	8,490	D 44 10	o les	162 6	1 . 11	11 114	, E 1 .	11 156	9,167	× 977	0*7 ×	9 151	11 %	11,281	113.554	7. + 11
	MARKET (ATEGORIES																	
	Home goods and apparel	3,57,	3,711	3.466	, x	7 ,	7	7	**************************************	^:	3, 805	· · · · · · · · · · · · · · · · · · ·	=======================================	1.13%	941 5	2	5000	7
	equipment and defense products, except automotive.	180,061	182, 161	181 600	185 +15	16	18. '. KI	14, 00	1,74 (94)	, , , , , , , , , , , , , , , , , , ,	177, '6	174,453	183 4.5	18h .93	148 843	189 193	190 015	189 403
	Construction materials, supplies, and intermediate products	14, 522	14, 506	15.076	1, 170	15.416	In. 111	17.56	1,0,1	1,1 388	14,417	14. 565	15,216.5	15	17,385	17,672	18 378	17 945
	intermediate products	764.00	48, 134	+8.94	F1 82 F4	1 4.793	1.9 6.1	114 174	11+ 644	Lt. 156	6, 3,	47,583	98 38	1 to 40 8	117 +35	113,336	114,463	114 5×2
	SUPPLEMENTARY SERIES?												-					
	Household durable goods indus- tries. Capital goods industries. Nondriese.	2,642 211,350 126,850 84,500	2,689 214,264 129,183 85,081	2,815 216,480 112 (67 84,413	114, 155 114, 126 114, 126	E 25 E E E E E E E E E E E E E E E E E E	1175	1 4, 152	13.5 5.15 13.5 8.7 10.7 8.7	10 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	4, 7, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	2, 999 211, 306 128, 604 82, 702	3,058 214,89 13, 14,	111 111 111 111 111 111 111 111 111 11	3.854 151 .48 70 431	151 594 181,594	155 - 161 155 - 161 167 - 161 169 - 161	23 4 45 23 44 5 154 849 154 849
	INDUSTRY GROUPS AND INMISTRIES						_				-							
32 33 331 331-6.	Durable goods industries Stone, clay, and glass. Primary metals. Blast furances, steel mills. Monferrous and other primary.	1, 780 21, 899 13, 132	1. 584 22. 181 13, 339	13.14	1,720	1.835 23,195 13,679	26.6.3	29.148	23 544 11 69 s	. b 453 16 484 16 484	1, 743 20, 669 12, 213	21, 696	21.877	23,170 13,046	2.113 27.511 16.509	2,273 28 659 17,189	29.355 29.333 17.576	29,597 17,888
34 351 351 353	Fa	6,456 24,367 58,289 15 153	6.391 25.004 59,703 15,304	5,499 25,788 61,458 15,470	6,586 26,384 63,462 15,668	6.647 28.334 67.595 15 -139	7,302 29,240 72,627 15 411	8, 78 30,170 74,5.5 17,183	7.526 30.598 35.4.1 17.7.1	8.033 30,275 74,018 17 18	57,467 15,052	5, 253 25 003 59, 467 15, 195	6,343 25,882 61,884 15,794	5,560 (5,419 63,831 15,516	7,756 30,199 73,511 1,108	8.202 30,463 74,130 17,013	8,427 31 054 74 714 17 334	8.54x 30.629 75.216 17.509
354	Construction, entury, and construction was teatal-handling coursens. Metalworking machinery. General industrial machinery.	6,370 2,759 5,478	6.651 2,961 5,587	7,441	3,36.	9.331	10,819 4,870 6,790	5,742	20,956 6,452	4,694	5, 192 2, 765 5, 440	6,538 3,005 5,648	3,127	7.384 3.315 5.013	11.116 5.73 6,775	11.266 6.083 6.951	11,311 6,208 6,752	10 989

See footnotes at end of table,

Table 3, VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES.-CONTINUED

							(Miliions	(Millions of dollars)	3.7									
					Seasona	Seasonally adjusted	75						Not	Not seasonally adjusted?	adjusted			
			Monthly	hly				Quarterly						Monthly	d),			
SIC	Industry group	Sept	400	Trite	June	-	1.0	111	=	-		Last 4 months	onths		las	Last 4 months a year ago	a year ago	
		1982P	1982 r	1987	1982	1987	1981	1981	1981	1981	Sept.	Aug.r 1982'r	July 1982	June 1982	Sept 1981	Aug 1981	July 1981	June 1981
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries																	
361,2		55,668	55,082	54,942	54,655	53.784	51,939	52,028	50,778	49,101	65,090	54,859	54.747	54.750	51,657	5185	50,3971	50,911
	distribution equipment and			7 794	7 84	677 8	8 705	908 9	0,18	009 8	7 68	7 611	7 81.	2 9e	2 8 8 2	0	00	, s
36.1	Monachold appliances	328	341	310	304	32.5	333	383	677	419	333	364	340	32.7	389	717	4557	460
365	Radto and TV.			765	476	359	349	526	414	418	516	426	413	- 16 7	650	8119	365	615
36.6	Communication equipment		34,252	33,654	33.268	31,690	79.697	29,423	28,239	27,019	34,202	33,650	33,222	33 1150	28.918	28,247	28,170	28 159
367	Fleetrong components			117.11	11,714	11.852	11.739	11,635	11,677		11,458	11,688	11,854		11,673	11,889	11.861	11.887
37	Transportation equipment	_	114,855	116,359	116,652	118,529	113,739	116,791	115,427	115.582	111,957	112,523	114.615	115.675	115.663	114,835	115,085	114.516
372,6	Aircraft, missiles, and	89,762	151,19	91,178	91,494	92,483	87,207	450,68	87,525	88,151	88,533	955,98	50,287	91,008	87.888	86.869	87,479	87.112
3731	Shipbuilding and military	17,899	18,416	19,237	19,361	19,503	19,449	19,993	19.732	011.61	18.043	17.999	18 495	19,056	20,133	13 431	19 356	14,434
38	Instruments and related		7,078	7,069	7,128	7. 162	7.189	7,112	7,034	984	7,186	7,119	7,110	7.302	7.091	7,143	7.236	7 113
25	All other durable goods		4.424	4.564	769.4	5, 313	4.801	7.	731	50	dl4.4	4.730	4.798	D 7	266.1	606.5	2000	11.5
	2																	

Supposes and me corders are recognisted of the period and are adjusted for trading-day and calcular-couth variations, unfilled orders and inventories are of the cord of the separate indicates. A library calcular activities and posters calcular activities and posters calcular activities and posters calcular activities and posters calcular activities and posters calcular activities and posters calcular activities and posters calcular activities and posters calcular activities and posters calcular activities and activities activ

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All manual orthoring industries .	stries	17.7,1 41	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. P. 43.	11.	. a. e.	. 4 5, 1	* :	1		7 7 7 7 7 7 7	. 234	74,47	12b, 181	H. C. P.L.	, s, 1 18	£ 5. 11.	73,6 1
Vinut course, telestrice ex-		. J. start			. 30. 543	. 11, 41,	. 1, *** .	13,510	17 , 45	24, 12	7	23,44	7, , 5	237,431	, , , ,		24,42	. 5.,,7.
unfilled orders		139,100	184, 4.1	188,4	191,143	14.4.5	154,431	14.,5	18., 311	1+3,761	ž.	*	7,	1 42, 333	÷.	11	* * * * * * * * * * * * * * * * * * *	7
the tale goods industries.	Tox	147, 430	185, .	183,748	18. 18.	150, 63	188,	* · · · · · · · · · · · · · · · · · · ·	151,13	7	ž x	:×3,11.	7 2 3 1	180,44	14.,47	, , , , , , , , , , , , , , , , , , ,	143,118	14
burable goods with or	nfilled	14.8, 130	165,875	188,470	144,17	1,11, 59	12, ,×'+	1.1.5 * 3	70.41	11, 11	1es , 403		F 4 , 4	17 1, but	, , , , ,	168, d	107,328	100,137
Nordyrable goods industries	ried	84,511	9	41,114	27K 2	44, 11,	17	44, 18.3	11,44	X X	y y	1×1	X +	7. 2.	118181	4 3,5 4	18.11	43,375
orders		21,104	x 2	12, 12,	.1, 4.	-	.1.7.4	.1, , , , ,			x,	,1	E	1,64,1.	11,114	14+1	21,411	.1.46.
MARKET CATHOURIES.												_		-				
Home goods and appored		1, 384	33,. 1.	31,17	.1, ex	1	55,1	x (,		1.4.1	1,14.1	11, 464	5 2 3	1,734	21,8.5	57,75 57,75	13.4.3	31. 25%
Equipment and defense percept automotive.	pt abuths	27,444	11,	37.00.3		7.	, p. 4	, x	3,. 11	1,468	187	77, 363	27, 27 5	15 5° C	7.4.4.	196'87	73,83	11,511
omotive equipment	s sappites.	on the	1	11, 33,						1 5	1000		1 3	1 1 1	100	1 45.	7	11.
Other materials, supplies, not	tes, and	104,740	11 2, 361	111,718	111.84	2.1	116.613	116.8.1	7.		1111111	11 1, 1986	1111.93	1111.477	115,1,0	711	114.813	11.5,883
SUPPLEMENTARY SPREAS	N131×																	
Household durable goods indus- Freek. Capital goods industries. Nonderense	1	10,000 87,545 7,755 14,790	10,656 87,885 73,-76	10,78. 87,378 73,173	10,744 87, 393 73,168	10,846 36,79 72,45 13,857	11, . h 86, 315 73, W	12/2	1677	10,465 81,395 er,688 11,406	7 1 1 1 2 x , 1	7, K75 7, 1110 7, 1110	467.6	11, 181 87, 864 73, 464	10,844 84,907 7.,488	11,103	82,116 84,116 71,75 11,380	10,641 11,134 11,134
INDUSTRY GROUPS AND IT	TADOS TRIES																	
Stone, clay, and glass product class containers Frimary metals	ss products	6,289 (92, 23,471 11,905	6, 536 686 24, 147 17, 124	6, 318 574 54,450 11,485	58. 7 50. 51 51. 51 51. 51	26,056 26,056 13,041	6,7%; 697; 16,7%; 115,447	6,784 15,427 10,198	1.8.4 5.3.4 \$1.45 \$2.4.51	1,170 644 12,144	678 23,583 11,822	25.25 25 25.25 25 25 25 25 25 25 25 25 25 25 25 25 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,505 641 74,643 1.,515	6,576 75,500 13,100	668 111,811 12,861	6.466 6.45 6.45 11.567	64.468 24,163 24,183
Nonferrous and other primary metals	er primary	10,681	19,836	19,600	10,710	11,145	11,273	11,139	11,414	19,359	19,403	10,49t	12	19,856	10,849	20,030	30,048	10,443
Metal cans, barrels, and drums, Machinery, except electrical: Engines and turbines.	s, and ectrical	1,735	1,5%	1,528	1,504	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1, 318	13,471	1,749	1,604	42,621	1,480	1,610	1,677	1,341	1,184	42,413	71.11 21.535 21.535
Construction, mining, and material-handling equipment. Metalworking machinery General industrial machinery.	equipment.	10,595	2,319	10,996	2,427	2,588	2,744	2,858	9,543	9,271	2,275	10,905	2,385	11,200	9,883	2,834	9,718	9,600 2,757 3,967
to be of the same		`					-		-			-						

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES -- CONTINUED

Industry Sept. Aug. July June Industry Sept. Aug. July June Industry Sept. Aug. July June Industry June Jun				_		-						
### WOURTRIES - 1982, Aug. 1419 1982 1982 1982 1982 1982 1982 1982 19	sted						Not s	seasonally adjusted	adjusted			
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### AND INVISTRIES ### CALL Control Co	1981	1981	1861	1981 Se	Sept, A	Aug., J	July J 1982 1	June Si	Sept.	Aug.	July 1981	June 1981
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1,000 1,000		4,710	4,462	4,280		4,278	4,304	4,430	4,656	1,541	4,542	4,215
2,534 8,937 9,129 9,134 8,000 pares 2,534 8,947 9,137 9,129 9,144 8,000 pares 2,534 8,947 9,132 9,134 8,000 pares 2,544 9,144	1,866	1,732	1,549		1,650		,747	1,746	1,715	1,741	1,679	1,617
1,000 1,00		9,241	9,257	9,133			5,503	9,358	9,188	5,234	5.836	9,281
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19,795 20,212 20,178 19,810 1,310 1,	14,814	15,141	14,824	14,523	14,069 1	14,159 1	14,286	14,377	14,994	15,365	14,967	1+,917
1,347 1,229 1,559 1,59	20,400	21,290			1,977	1,756 1		18,808	1,785	20,868	1,873	20,184
1,27 1,27		3,740	3,617	3,757				3,486	3,699	3,445	3,426	3,523
restriction (1.97 1.9		12,499						0,575	13,112	12,585	11,867	11,490
1,572 1,572 1,573 1,574 1,575 1,57		7,008	5,735	5,839	4,469		6,444	0,470	6,965	5,730	6,977	7,064
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		6,434		6,149	5,383	5,676	5,858	197	6,281	61,219	0,534	0,36
									-	-	0	
industries	15,628	15,015	14,626	14,511	14,814	15,384	15,810	16,351	15,031	755,437	12,387	15,367

Pangwents and new orders are the totals for the period and are adjusted for tradition-day and calendar—nonth variations, unfilled orders and inventities as if the end of the period and are adjusted to a standard admits a standard durable requirements of the separate industry categories as follows.

"The supplementary cortes are recogning to a separate industry categories as follows however the recogning durable recogning to a strike and pottery, cutlery, handtools, and hardware, household applicates, and the articles and pottery, cutlery, handtools, and hardware, household applicates, and in "phthalast goods, aftithes, and clocks, and necessary personal goods."

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ourable goods industries.		4.3					r :			, :	61,15	12. 11	NO.	Her ye	# C . X.		5.7
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All other durable goods industries		0.440			1 100					~	2,45,1		£ £ £	P 201	1 Jag		8
Chowlesh and allied mandact.		30 448 8 116					c :			r. 3	4. 18. 3 1. 18. 3	3.5 45.8	yes.	to Mr. of	(1. 85.)		
Petroleum and coal products		2 497					No.				. 477	200		G	 		r .
Rubber and plastics products, n.e.c	13.549	23.921	4.00.4 4.00.4	100	140	# # #		¥ 1	707	7.5	27.7	E .	£ 7	757	th.]	T	
WORK IN PROCESS															*		
All manufacturing industries	45,436	45,483		- x		44 310				- 57	- 1	,					
proposite trades to the	NO SON	80 08															ç
Stone, clay and glass products	455	434		914		1 115				7 182	157	11.		14,			80 .0
Primary metals	2,568	9,388		4 864	, x, c	10 817			1,555	X T	734	, , , , , , , , , , , , , , , , , , ,	127	7 X 7			2
Fabricated optals	17 5.75	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		10.101	0.7	. 43.5			101	X .	TY	111	200				
Electrical machinery	13. 346	13.495		11.01.	7 6	1 . 2			10 11 11	1 547	18/	x :	1115	0.41			138
Transportation equipment	24, 995	24, 593	21.885	24 231	2.5 4.74	23 (10)	5 5 5 1 .	.3 024	27 200	- 3.m.	24, 185	21.846	25 742	24 470	23 132	22 834	2 2 2
All other durable group industries	3, 124	3 153		7 7 7	10%	. In			, ,,,	. 133	111.		184	101			7
onditional orders and and	11, 0413	0.000		35 555					011	77.7		*	i x	10.5			
Chemicals and allied products	3, 395	3,539		1,638	111	2,4,24			167.01	3. 354	C+C	2/8	745	233			16 08
Petroleum and coal products	2,404	2. 524		700	8.00	0, 5			1 001	7.7	214	18,	100	885			
All other nondurable goods industries	7.423	8 061		8 094	172	687.1			1 41 7 00	51.10	1 80	9.0	, , , ,	186			
FINISHED COODS									-	100.0	101						
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Stone, clay, and glass products	3, 192	3,252	100.4	25.7	47.457	1 187	200	43.741	0 E -		3 188	835	200	1001	555 55		7
Primary metals	6,260	6,306	6,379	6.255	5.684	b. 524	573	6,032	5,414		6,458	284		252	b. 134		7 6
Fabricated metals	5.083	5,218	5.150	5.260	5,158	5,165	187	5,050	4.871		690 ' c	101	999	950	5,045		2 3
Electrical machinery	5.871	5, 883	5.817	5 793	5.470	5, 476	117	12,0251	11 58		5 814	87.48	070	516	27.2		12 38
	4,727	4,667	4,610	- 556	4.577	6.529	276	4,166,	777		4.556	507	583	211	1 140		4 19
Instruments and related products	5, 491	5, 491	2,471	2,412	2,309	2 441	400	2,313	2 263		2,480	507	532	1981	2,315		7.
ondurable goods industries	30 201	30 770	200.	10 000	1,471	100.00	300	576	076.0		2001	75.0	05/	303	5 575		7
Chemicals and allied products	8,817	9,001	950'6	9,223	9,818	9,853	424	9,206	8,556		8,823	582	1,1	153	9 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		43,20
Rubber and oldestice products	4,280	4, 208	4,255	4,148	5,279	098.7	897	5,653	5,706		4,398	2.43	0.61	744	5,552		5 5
All other nondurable goods industries	22,826	22.994	22,929	22,433	23,207	23 137	22.994	22,638	2,671	2,420	23,120	2,513	22,625	23,231	22 989	2, 727	22 88
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A CATALLINATE DEVASED.																	

Table b. PERCENT CHANGES AND REVISIONS OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

			Pe	rcent chang	es				Revisions ²	
		Month-to-mo	nth	Avera	ge monthly r	ates of ch	ange ¹		Average	monthly
Item and industry group		July 1982- Aug. 1982		Third quarter 1982	Second quarter 1982	First quarter 1982	Oct1981 through Sept1982	Year ago Sept. 1981	Sept. 1981 through Aug. 1982	Sept. 1977-81
Shipments:										
All manufacturing industries	0.0	-1.7	-0.1	-0.6	+0.8	-0,4	-0.5	0.4	0.3	0.3
Durable goods industries	-1.4	-2.3	+0.2	-1.2	+0,3	-0.4	-0.9	0.0	0.3	0.2
Nondurable goods industries	+1.2	-1.2	-0.3	-0.1	+1.3	~0.5	-0.1	0.7	0 4	0.4
Inventories:										
All manufacturing industries	-0.8	-0.2	-0.1	-0.4	-0.6	-0.4	+0.3	0.1	0.1	0.2
New orders:										
All manufacturing industries	+0.7	-2.7	+1.0	-0.3	0.0	-0.1	-0.6	0.1	0.3	0.4
Durable goods industries	-0.1	-4.5	+2.5	-0.7	-1.4	41.6	-1.2	0.6	0.7	0.5
Nondurable goods industries	+1.5	-0.9	-0.4	0.0	+1.3	-0.4	-0.1	0.8	0.4	0.6
Unfilled orders:										
Durable goods industries	-1.1	-1.4	-0.9	-1.1	-1.0	~0.3	-0.8	0.1	0.1	0.2

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

	Inv	entories	hipments rat	110	Unfil]	led orders		atio1
Industry group	Sept. 1982	Aug. 1982	July 1982	June 1982	Sept. 1982	Aug. 1982	July 1982	June 1982
All manufacturing industries	1.72	1.73	1.70	1.70	3.67	3.69	3.67	3.69
Durable goods industries	2 40	2.38	2.33	2.34	4.49	4.55	4.49	4.51
Stone, clay, and glass products	1.69	1.71	1.68	1.66	0.54	0.52	0.51	0.51
Primary metals	2 92	2.88	2.90	2.86	2.67	2.65	2.65	2.58
Fabricated metals	2.02	1.98	1.93	1.98	2 84	2.84	2,83	2.95
Machinery, except electrical	2.82	2.93	2.95	2.84	4.07	4.26	4.42	4.38
Electrical machinery	2 32	2 35	2.22	2.32	4.84	4.82	4.54	4.70
Transportation equipment	2.48	2.26	2.21	2.22	11.63	11.58	11.14	10.96
Instruments and related products	2 36	2.41	2.41	2.34	1.80	1.82	1.81	1.78
Nondurable goods industries	1.08	1.12	1.11	1.10	0.55	0.52	0 53	0.54
Food and kindred products	0.86	0.91	0.87	0.85	(7)	(7)	(/)	(X)
Tobacco products	2.97	3.78	4.79	3.48	(7)	(7)	(X)	(X)
Textile mill products	1.56	1.52	1.58	1.51	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.40	1.34	1.35	1.36	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.41	1.42	1.46	1.44	(/)	(7)	(7)	(7)
Petroleum and coal products	0.52	0.55	0.52	0.52	(\)	(7)	(X)	(%)
Rubber and plastics products, n.e.c	1.57	1.61	1.54	1.61	(7)	(7)	(7)	(/)

⁽NA) Not available. (X) Not applicable.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the sample averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

¹Excludes the following industries with no unfilled orders: Wood and Lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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M 3-1 (82)-10

Manufacturers' Shipments, Inventories, and Orders

OCTOBER 1982

U.S. Department of Commerce BUREAU OF THE CENSUS

M3-1 (82)-10 FOR WIRE TRANSMISSION 3:COP.M. E.S.T. THURSDAY, DECEMBER 2, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in October declined \$6.0 billion or 3.9 percent from September to \$150.1 billion the Department of Commerce, Bureau of the Census reported today. After orders peaked in July 1981 at \$172.1 billion, successive monthly declines were recorded thru January of this year. Orders fluctuated between \$155 and \$159 billion from February to September. The October estimate of \$150.1 billion is the lowest recorded since June 1980.

Shipments of manufactured goods in October were down \$6.5 billion or 4.1 percent to \$152.8 billion. This is the largest one month decline since the 4.1 percent decrease recorded in April 1979.

The backlog of orders held by manufacturers at the end of October was \$293.2 billion, down \$2.6 billion or 0.9 percent from September. This is the 15th consecutive monthly decrease in unfilled orders, as shipments have exceeded new orders during that period by \$35.6 billion, an average of 1.5 percent per month.

The book value of manufacturers inventories in October showed a very small decrease from September, down \$0.2 billion or 0.1 percent to \$272.3 billion. This coupled with the large decline in shipments caused a sharp increase in the inventory to shipments ratio from 1.71 in September to 1.78 in October.

Within the major industry categories new order declines were widespread. The major durable goods declines were in primary metals, down \$1.0 billion or 12.6 percent to \$7.0 billion; machinery, down \$1.3 billion or 4.9 percent to \$24.7 billion; and transportation equipment, down \$0.5 billion or 3.1 percent to \$14.4 billion. The decline in transportation equipment reflected a large decrease in the motor vehicle and parts industry which was only partially offset by increases in the aircraft and parts, shipbuilding and railroad equipment categories.

New orders for nondefense capital goods in October were down \$0.1 billion or 0.5 percent to \$20.2 billion, as declines

in the machinery components more than offset increases in aircraft and parts and shipbuilding. New orders for defense capital goods were up \$0.4 billion or 8.7 percent to \$4.7 billion, following an 18.4 percent decline last month.

The shipments declines were also widespread within the major industry categories. The largest decreases in the durable goods sector were registered in the nonelectrical machinery, the transportation equipment and the primary metals categories. Within nonelectrical machinery all industries were down except farm machinery; within transportation equipment, decreases in motor vehicle and parts shipments of \$1.7 billion or 17.3 percent was only partially offset by an increase in aircraft and parts shipments; the steel industry accounted for virtually all of the primary metals decline. Within the nondurable goods sector, the largest declines were in food product shipments, down \$0.8 billion or 3.3 percent; and chemical shipments, down \$0.8 billion or 5.2 percent.

The book value of manufacturers' inventories at the end of October was valued at \$272.3 billion, down \$0.2 billion or 0.1 percent from September. Inventories have declined every month this year except February, and are now 3.8 percent below the 1981 end of year level of \$283.2 billion. Raw materials inventories at \$89.7 billion in October were down 7.0 percent from last December, while work in process inventories in October were estimated at \$95.4 billion, down 3.6 percent from December. The October estimate of finished goods inventories of \$87.2 billion was only 0.6 percent below last December.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for November is scheduled for release on December 21, 1982, and full report is scheduled for release on January 3, 1983.



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

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	TOTALS							Ī										
	All manufacturing industries	15.,7.0	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	1.8,419	141,14.		1,4,6,5	*** 17 ×	1	1	. 18	147,03	los, ola	173.738	m, los	155,418		1, + 78, 354
	Manufacturing industries excluding transportation	117,174	14 , 498	141,036	1-5, .7,		x	e r f	1.1, .	,	11.0	15., '%,	13.345		10.7.01	141,118	1 1 1 1 1 1 1	1,500.
	unfille! orders,	77,938	st provi	80,440	B 41.5	m., ****		.44,114	r r	344. 445	71,065	74,430	84,431	1,370	87,417	BOT, 244 3	8.2,018	878,437
	Durable goods industrib s			17,8	14, 31	. 5 , 4 , 4		. 32,5 .	Ţ.	r *	3,5,4	, 10f. or	76	7 , 3 5 7	81,000	, ,	,	T T
	orders	11, 14.1	121	1.5,800	********	195,14.	140,384	461	,	1	1811	11.7	1,	×	, 24 	7 7 7	b 30 ,	Ja., 407
	Nondurable goods industries	4.55.14	×. , 714	м1,5/1	8, 546	.1 1.	111,111	. 3 *, * 81	1.1.		, II.	ž, I,	*	1 .1.	A. 48,	14,201	. ** 118	834,.26
	Orders	I KHR .	17,13	17,1.	1	1, 1, 3	*	, , , , , , , , , , , , , , , , , , ,	1.	7.	1.13.4	·	.5,143	1 1	7, 34	11 248	12,444	1,77,42
	MARKET CATEGURIES										-							
	Hone goods and apparel	10,846	To the state of th	11,.47	11,318	915,710	187.	88,348		11.12	1.15	10, 20	1.,437	11,785 ;	12,021	7 K	3 1, 50	241,44
	Equipment and defense products, except automotive.	. 5,77.5	18.8.4.4	. 3,746	24, 146	* * * * * * * * * * * * * * * * * * * *	73,1	.3.5.	. 5.4	Ε,	***	,007	5,618	. 7,34.	7/0.1.	868.77	dut, tate	253,715
	Automotive equipment	1,84.	1 , 485	17,494	J. 436	36,115.0	54.1.37	55+ R.		11, 31	H., 802	4,874	12,051	11,078	10,084	4,474	1.18,867	116,035
	and interrediate products	11,71	11,789	11,899	11,111;	* *	51,114	34,38	12,47	111.111	11, 334	.1,872	7 20	13, 182	13,234	11,04	11,	130,504
	intermediate products	67,018	10, 110	64,011	70,690	F. Apr.	.11, 10	. 10,, 38			1,601	182,287	14,443	78,053	76,316	71,688	501,000	771,814
	SUPPLIMENTARY SPRITS ²														-			
	Household durable grouts Indus- tries (apital grouts Industries conference nordefernse nordefernse	2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	80.57	4,711 15,423 11,776	5,131 17,083 21,483	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14,603 82,736 68,976	84,281 1,112 1,112	2 1 X	123	5,040	20,314	28,883 24,785	30,690	1,1864	5,545	772	51,775 284,244 246,031
	INDUSTRY GROUPS AND INDUSTRIES	,	,															
52	Durable goods industries									_	_		-		-			
322	products	1,801	3,800	3,730	3,784	11,74	11,44	11,494	4,1 10			3,738	1,173	0.16.4	960.7	4,155	38,4.7	41,405
331	Primary metals	2,694	8,730	3,654	3,685	25, 75	12,064	14,07,	, 8, 1, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	3,74	3,413	3,291	11,081	0,820	5,777	5,547	40,575	117,827
34	Nonierrous and other primary metals Fabricated metal products	3,917	9,488	3,873	3,584,	11,650	11,418	11,627	5 4 4 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 * * * * * * * * * * * * * * * * * * *	3,718	3,457	10,213	4,770	4,638	4,,42	97,312	45,435
351 351	Metal cans, barrels, and drums Machinery, except electrical Engines and turbines	14,013	15,4.12	870 14,847 1,218	14,879	2,613	2,742	2,842	£ 1. 5	15,84.1	1,021	435 13,614 489	863 17,272 1,324	1,318	1,087	1,038	4,350 155,238 11,988	4,657 154,184 13,525
353	Construction, mining, and	1		000	0.00	76.	5,103	2,170	11111	1000		0.70		1,074	7 120		0 0	10.15
354	Material-handling equipment, Metalworking machinery General industrial machinery.	717	744	1,311	885	3,841	2,617	2,915	735	1,248	818 1,256	770	1,024	1,109	3,178	3,021 856 1,356	8,809	10,123 10,123 14,285
See	footnotes at end of table.																	

See footnotes at end of table,

							CMillions	Willions of dollars										
				Season	Seasonally adjusted	pa						Not	seasonally	Not seasonally adjusted				
			Monthly	hly			Quarterly					Wonthly					3. a. 1 - 1 , 1a.	914
SIC	Industry				Loto	111		-		Last 4 mc	months		Lasst	Last 4 months a year	i year ago			
		1982 ^p	1982r	1982	1982	1982 ^r	1982	1982	Oct. 1982	Sept.	Aug. 1982	July 1982	0ct. 1	Sept. 1981	Aug. 1981	July 1981	196.	1381
	INDUSTRA GROUPS AND INDUSTRIES (ontinued											_						
	Durable goods and industries										_							
361.2	Electrical machinery	11,125	11,452	11,434	12,108	766'-5	35,228	34,170	11,549	12,076	11,131	10,054	11, 488	12,547	ll, ab.	10,405	7. I	115 018
	distribution equipment and	1,555	1,733	1,671	1,731	5,135	5,722	5,307	1,573	1,78.	1,615	1,503	1,850	1,947	1,4.7	1 1 1		18,144
36.2	Rada and IV	544	637	209	744	1,988	2,095	2,008	265	74.5	o Sept	748	794	288.3	7112	1 1 2 2	1 1 1	20.00
367	Communication equipment	2,288	2,732	2,040	2,499	7, 351	7,465	7,047		7,518	2,359	1,444	.,433	4.7.5	7	2,182	1	3,434
37	Transportation equipment	7,911	9,546	11,018	10,918	51,5%	30,038	24,427	50.74	4,744	x,483	8,412	20,280	1,05	8 , 1 g x	×, 11,	43.14.4	16 77
372,6	Aircraft, missiles, and	5,827	5,307	5,201	5,306;	17,814	10,163	15,240	2,613	5,385	779'1	1,000	2,1,7	CAM.	., 14.	112,4	7.	3.1.6
37.31	Shipbuilding and military tank vehicles.	258	451	853	686	.,793	2,823	2,839	871	797	770	474	4,91	483	1,008	277	45	X0 7
38	Instruments and related	70	£ 11. 1	3.89.	3,905	į	11,820	11,628	1,900	4.316	3,873	3,514	4,125	10,11	3,878	3,413	34, 13.	34,114
381-4	Scientific and engineering	1,414	1,35.	1,371	1,301	7,10,	05,40	3,474	66.1	1,57	1,+03	1,270	1,353	1,423	2,247	11011 11011	3,14.	23,174
24 39	All other durable goods industries	7,985	7,813	7,691	8,100	13,5en	23,449	3,47	A,57¢	5, 5	8,175	7,487	5,744	8,870	6,538	T	,	£ 64.
20	Nondurable goods industries Food and kindred products	22,493	.3,.08	27,275	13,177	68,820	58,635	67,182	. 3, 314	8m2 ***	22,335	71,657	584,	.3,11,	1984	1,301,	24.46	225,451
201	Weat products	6,133	6,403		0,194	18,820	18,683	17,285	7.4.2	77.7	3.145	3,111	2,450	0 108	7,300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	51, 18	26,114
207	Fats and oils	1,282	1,256	1,319	1,+30	+,011	4,312	4,365	1,299	1,280	1,.01	1,531	1,571	1,508	1,571	D+T	17.77	15,774
203-0,9	All other foods	9,079	9,417	8,796	9,342	3,775	3,636	3,378	1,260	1,447	1,.79	1,024	1,111	1,135	1,152	1,132	111,447	10,044
55	Textile mill products	4,104	4,145	4,198	4,074	12,467	12,473	17,309	4, 518	7 27 7	4,.54	3,41.	17:12	1,881	1,084	3,85	41, 784 15, 750	14,20%
261-3	Pulp, paper, etc	2,615	57.	1,074	050.	1		677.8	100	2,714	7014	2 7 0	1, 883	C	. H7:		1, 147	25,7**
265	All other paper products	320	7,714	2,358	2,298			6,877	767	343	2,417	2,172	1 2 2 2 2	2,18	2,330	-	1,17.	22,23
28	Chemicals and allied products	13,646	14, 397	14,551	14,259	43,207	42,482	41,058	13,204	1+,840	15,477	12,950	13,831	15,5,2	1+,783	13,43	, , , , , , , , , , , , , , , , , , ,	148,147
0 4704	cept pigments	4, 399	4,345	4,628	4,547	13,7.0	13,589	13,801	4,179	1 tr	1	1 103	4,700	156 146	4,47.	, ±0°+	11.11	21,477
283,4	Drugs, soap, and tolletries Petroleum and coal prolucts	17,267	17,433	16,976	4,153	55,097	51,468	48,733	17,016	17,443	17,000	17,341	18,454	18,199	18, 417	17,405	369,435	184,283
30	Rubber and plastics products,	3,526	3,654	3,590	3,807	11, 51	10,831	10,580	3,744	F. E- "	3,482	3,4,4	4,13+	4, 74	ē.	3,714	2, 181	7
87.3	All other nondurable goods	11,649	11,768	11,489	11,740	35,497	34,209	35,.78	1.,89	12,67.	12, 74	11,547	12,833	12,7/3	12, 500	11,+14		114,743
0	1																	

trading-day of culturals against variations.
The supplementary series indistry categories as follows. The supplementary series and parties and pottery, and harware, household appliance, ratio and IV, special ic goods, earlies, and elsewed in arricles and pottery, cuttery, handroots, and harware, household appliance, ratio and IV, special ic goods, earlies, and elsewed in arricles and pottery, cuttery, cuttery, and harware, household appliance, ratio and IV, special ic goods, earlies, and elsewed in arricles and pottery, cuttery, cuttery, handroots, and harware, household and IV, special ic goods, earlies, and elsewed in arricles and pottery, cuttery, handroots, and harware, household appliance, ratio and IV, special ic goods, earlies, and elsewed in a constant and arricles and pottery. Superents and mass orders are the totals for the period and are adjusted for trading-day and calcular-month variations, unfilled priors and payments and provided and are adjusted for trading-day and calcular-month variations, unfilled priors are as 31 the red of 11 the period and are adjusted for trading-day and calcular-month variations, unfilled priors are as 31 the red of 11 the period and are adjusted for trading-day and calcular-month variations, unfilled priors are as 31 the red of 11 the period and are adjusted for trading-day and calcular-month variations.

neess personal goods.

(darful cooks indicated to the pressure capital goods and the defense products fold series (alectrical machiners) and soft an architect and electron and series and series and series are series and series and electron capital series and electron electron and series and electron electron capital series and reparting and relative designed equipment, artificit and artificity large electron elect

							Callions	is of dollars.	L S J									
				Seasor	Swasonally adjusted	p.a						40%	seasonall	seasonally affusted	2.			
			Mon	tonthly			.cuarterly					"onthly	13				. 45	1274
SIC	Industry									Last .	* 3nths	1	Last	4 00 PE 2	3 3 t U 3g 5			
		148.5	Supt.	1985	17.	1 8 2	1 28 1	- 4	, <u>a</u>	17.7	305	7 TH THE THE THE THE THE THE THE THE THE	i i	± , ,	Aug. 1	J. L.	7	ř.
	101415																	
	All manufacturing industries	150,170	1.* Inh	154 380	188, 8x	36.	T K E	· · · · · · · · · · · · · · · · · · ·	1,		144,347	3.375	161,183		154, MH	1 6,3 1	* [} * * * * * * * * * * * * * * * * *	. 64. 154.
	Vanufacturing industries excluding transportation	13 , 758	141 338	134, 295	14. 3	r r	* X	*1 × 1;	•	· 40	135 + 13	,	14.47	g	7 7 7	187	300 016	1
	Nanutacturing Industries with	7 .192	74 , 17	75 711	14, 141	, 34, "14		·	; n	1	`3`	1	7 ? ? ?	124. 2	7 7 7	r; m	6	r r r
	Durable Koods Industries	69.857	73,286	748.	75, 410	222, 594	7	27.4 2.74	3000	116.	7 4 £	on 3+3	7 7 7 1 K	86 332"	74.074	77,214	7511 BK7	845,447
	Durable goods with unfilled	S4.480	60 483	40.34	. 3. 14	.d3	1 8 747	x ;	7	. 3	f (7	1 1 1 1 1	13, 180	188	7	77. 47.4	7:14 7.
	Nondurable goods industries	8),263	82,401	81.348	*	240,44	24- 342	23K +73	, T	r r	r r	x		ř.	7	34 ,+7	81 - 13	* * * * *
	industries with unfilled orders	16.812	17,314	17,181	16. 745	11,237	. 29.	1, 414	180 11	, x, 11	17 418	F. 5	,1,813	18,235	1,0,1	. 3.	73.442	1,2,401
	Industries without unfilled orders	63.451	7 , 38	1111	7 . 2	. 98,2 13	, a. 11 a	147. 54		<u>:</u>	70,7	٠,١،١،		* 7. 44.2	A4. 748	+3,013	634, 637.	551,5
	MARKET (ATEGORIES																	
	Nome goods and apparel	10, 799	31,384	30, ,81	37, 393	33,258	32 071	3., 48e	12, 52,	1. 28× 33 243	12. 04 3 11.	28, 787	12,011	31.22.1	24,258	27,443	1.0,47h 301,304	241, 544
	Equipment and defense products, except automotive	97, 292	11.267	240,117	34.1		11 143	7 7 7 2 x x	7 2 7 7	\$ 60.7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	14 373	6.5.5.		33, 581. 1 9, 161.	23 358	237 - 74	16,717
	Construction materials, supplies, and intermediate products	11,408	11, 591	11,429	3118	35, 128	33, 479	33, 473	12. 34	10.45	11. 34	11 577	17,407	12.495	12,833	12.824	7 00	130,247
	Other materials, supplies and intermediate products	14, 31	58 531	58,3%	64, 77.	2 10 3 104	x . x . x . x . x . x . x . x . x . x .	2.4.36	£	AM 713	4.	3	74.1.1	77, 1-1	- 7 7	11.,69	9.8 K,	770,241
	SUPPLEMENTARY SERIES?																	
	Household durmable goods indus- tries. Optial goods industries. Nontefense. Defense.	4, 726 24, 891 20, 177 4, 714	24, 850 20, 273 4, 335	4 670 24 237 18,893 7,314	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	73 - 715 79 - 78 79 - 788 14 - 333	14.1.5 14.1.5	2 m 1 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.00		1. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	31 .55 5 . 55 5	17, 423	3,473	4 66. 50. 50. 50. 50. 50.	50 88 CH
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33 33 33 33	Durable goods industries Stone, clay, and glass. Primary metals	3, 781	3.852 7.483 3.351	3,707 8 178 3,749	3,751	11 315 24.821 11, 099	25 237	.1.393	7,217	4 11.3 7 531 2.952	3. 44. F. 53 H	3, 714	4,177 4,191	4, 185 ,0,463 >,140	2,343	10,162	37,406	41,724 114,892 58,417
34 35		3, 554 8, 445 13 771 1, 191	4,010 8,858 13,978	3,765 8,897 13,091 1 051	3, 797 9, 368 12, 875 951	11,572 26,933 39,945 2,926	11, 508 27, 783 42, 680 3, 285	11,073 27,648 44,363 3,397	3, 643 8, 75,2 13, 874 1, 415	3, 485 9, 55 13, 833	3,626 8,867 11,205 1,309	3,240 8,589	4, 112 9, 774 16, 667 1, 5:30	17,348	4,413 4,410 15,552 478	4,159 10,084 14,874 1,057	38, 335 91, 554 12, 505 13, 974	45.076 124.455 158.415 13.082
353 354 356	Construction, mining, and material-handling equipment. Metalworking machinery	2,054	2,540	2,160	2,487	7,187	6,643 2,012 3,271	1,993	2,145	2.508	1,992	2,341.	3,071	3.120	3.133	3,343	23,898 6,555 11,648	33, 795 8,388 15,025
See	See footnotes at end of table,																	

Table 2, VALUE OF MANUFACTURERS, NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATFOORLES, AND SIPPLEMENTARY SPRIES -Continued

						(Millions	Millions of dollars)	s)							
			Seaso	Seasonally adjusted	ted						No	t seasonal	Not seasonally adjusted	- 7	
		Monthly	hly			Quarterly					Monthly	119			
Industry				,			,		Last .	won ths.		Last	Last 4 months a year ago	a vear ag	
	1982P	1982r	1982	1982	1982r	1982	1982	Oct. 1982P	Sept. 1982	Aug. 1982	July 1982	Oct. 1981	Sept.	Aug. 1981	Jul 198
INDUSTRY GROUPS AND INDUSTRIES															
Durable goods industries															
Electrical machinery	10,970	12, 025	11.572	12,396	35,993	36, 101	36,015	11,972	12,262	11,247	10,651	11,452	12, 759	11,761	10,
industrial apparatus	1,495	1,639	1,451	1,681	4,771	4,624	5,044	1,525	1,629	1,417	1,409	1,493	1,869	1,954	orl -
Radio and TV	467	650			1.872		2,039	519	701	625	580	207	1,024	803	
Communication equipment	3, 715	2,556		2,443	13, 296		12,988	7 547	2, 220	3,495	3,726	3,883	4,227	3,507	m c
	14,362	14,828			48,427		49, 625	17,361	16,521	12,524	13, 708	18, 211	18, 031	15,089	15
Aircraft, missiles, and	5,197	4,181	5,175	686,7	14,345	15, 193	20, 522	6,827	5,027	3,891	4.175	6,131	7,001	4, 336	
Shipbuilding and military tank vehicles	718	376	32	867	1.275	2,58	2,894	721	954	334	392	971	1.183	1,575	
products	3,750	4, 135	3,904	3,847	11,886	11,583	11,801	3,887	4,336	3,883	3,426	4,092	4,189	3,845	e
All other durable goods industries	7,798	7,797	7.549	8, 033	23,379	22, 831	23,983	8,351	8,272	8,098	7,441	8, 491	8.058	8,517	7

18,889 11,489 7,248 37,225 24,127 173,053

16, 204 ,0, 225 6, 368 42, 999 24, 370

.981

10,885

**Simpments and new orders are the totals, for the period and are adjusted for trading-day and calendar-month variations, unfilled orders are as of the want of the world the period and are not adjusted for calendar-man variations.

The supplementary section are the separate industry categories as follows.

Household durable goods industries,-dousehold furnium, kitchen articles and pottery, cutlery, and household durable goods industries,-dousehold furnium, kitchen articles and pottery, cutlery, and harkare, bousehold durable goods industries,-dousehold furnium, kitchen articles and pottery, cutlery, and harkare, bousehold durable goods industries,-dousehold furnium, kitchen articles and pottery, cutlery, and harkare, bousehold durable goods industries,-dousehold furnium, kitchen articles and pottery, cutlery. Revised. Preliminary.

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neous personal goods.

The proposal good of the precisions producers' capital goods and the defense products (old series) categories' eveluants because the architecture and the products of the precision of should not be a series of the products of the products of the products of the products of the products of the product on of should find a part of the product of

TABLE 3. NABLE BETWEEN PETERS FOR SHIRE FOR STREET AND STREET AND SUPPLEMENTAL SPELES.

							William of tellian	a tellar										
					sea. seall	a 112-7:1							×0.4	the seasonable adduster th	addust. 1			
				1:			1,	, 13r* - r2h		,				Monthly	6			
-					•	1	p==			-		1	. 22 (1	1454	4 Conths a Vear	VHRT AKD	
ž			1 x 7 1 x 7	144	11	:	- ţ	· 1	E (: I	⊦ . 5∛		144	45.	144	idex 12 m	lest [44]	1.5
	totWa			•	•		1			i						-		
	All namifier ouring industries	293,248	. 41,883	14 867	3 1 5	3 - 4	5, 13+	1.8 4.11	317 4 1 5	5.7.2.	·	, 42 , OU.4	* 1,827 c	341 hay 3	32348	323, 774	3.0 3.8	3
	Manufacturing industries excluding transportation	180,374	182, 583	184, 146	180 430	198. 38.	. 11111	÷ ;			175,084	18, '11			204,093	208,116	22.0 4.43	115.4
	Durable goods industries	284, 148	186, 750	и.,	1.18.	t de Ken	, ,	3 × 3 · · ·	91 1	36 28	. 5	. 81, After		[M], 684 3	31 , 542	317431	31 23	31.
	Sondurable goods industries	, In.	4,4.77	7		· 164			:	, ,	C de de	4,158	X	! ;	4 1 3 4	11 35	¥.	Ä.
	MARKET CATEGORIES																	
	Hose goods and appared,	,} ,,,,64	5, 14		**	**************************************	1	1 7	÷:	~ ,	20 11.	32		77 -	i,	199	£,	
	except automotive	I 174,008	18 . 458	142 41	×.	Ŷ.	•	1		7	1	1, , , , ,	~ .	.83, 411	. K4 R23	188, 84,	184 743	1
	Construction ratemats, supplies,	14,000	14, 17,	1 11	,		,	7			14,-11	1 1 1	14 000	1.314	17. 18	.7.38+	13 67	X
	other raterials, supplies, and inten eduate products	Ab, not	11,336	** . 5.	.8. 4.5	x y		-	4, 4 9, 14	26	43,43.	x x	+7.+43	* * * * * * * * * * * * * * * * * * *	* 1	112 -35	113 335	117
	SUPPLEADSTARY SERTES?																	
		210,406 210,406 126,100 84,300	211,737 127,180 84,537	Zla, 25a 129, 183 85, 181	18. 48. 48. 48. 48. 48. 48. 48. 48. 48. 4	* * * * * *	3 288 8 2 2 2 8 8 8 2 2 2 1 2 4 2 2 8 1 2 4 2 3	3 - were 14.0, 2.11 73, 412		2, 18 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	210,384.	204, 185 116,068 83,117	128, 504	3, 358 214, 899 132, 1431 82, 700	3 225 2222, 644 1545,577 72, 686	3, 853 222, 298 151, 777 70, 431	221, 342 153 594 57, 748	175
	INDUSTRY GROTIPS AND TWOS. CITS.											-					_	
32 33 331 333-6,	3	1,716 21,198 12,830 5,131		2. 18. 13. 33.	121 ;			101 4		100 mm	11, 483 11, 483 11, 483 45,55	1,701	H. 483 .		25 521 15 815 7,355 24 .75	2.113 27,511 15,509 7,756 30,199	28, 503	157 85
35 35 351	Fabricated wetal products Machinery, except electrical Engines and tubines		24,130 58,176 11,151			53,472 1.,568	15,034		74, 15	17,771	15,487	11,050	15, 195 15, 195	15.294	72,907	73,511	74,130	74.
35.3 35.4 35.6	Construction, winds, and material-bradding equipment. Metalworking radiimen	5,911	6,36.	1,511 1,461 1,87	3, 133 5, 1854	7,362	3,437		11 454 2.744 2.815	17, 45¢ 6 412 6, 650	7,628	6,184 .,700 >,450	3.038	3, 127	5,516	11.11h 5,753 5,775	11, 266 5, 383 5, 451	= 0 0

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SEMIES--Continued

(Millions of dollars)

					Seasona	Seasonally adjusted	P						Not	Not seasonally adjusted?	v adjusted			
			Monthly	hly				Quarterly						Monthly	111			
SIC	Industry group					:						Last 4 months	onthy		La	Last 4 conths a year	a) ear ago	
		1982P	1982r	1982	1982	1982	1982	1981	1981	1981	0ct. 1982P	sept.	Aug. 1982	Jul.) 1982	0ct. 1981	Sept. 1981	Aug. 1981	7.41.y 1981
	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries																	
36	Electrical machinery	55,500	>5,654	55,082	54,942	54,655	53,784	51,939	52,028	50,778	55,418	55,046	54,859	54,747	51, 121	51,657	51,285	50,990
10111	distribution equipment and																	
	infustrial apparatus,	7,420	7,479	7.574	7,794	7,844	8,44,	8,705	8,906	8,849	7,404	7,458	7.611	7.810	6, 523	586.8	8,467	9,440
30.5	Household appliances	286	331	341	342	304	359	333	525	675	271	330	36+ 42h	240	76.77	989	50%	9 5
366	(ommunication equipment	34,822	35,077	34,252	33,654	33,268	31,690	29,697	29,423	28,239	34,898	34,402	33,650	33,277	29,245	28,918	78,297	28,170
367	He trinic components	11,690	11,393	11,527	11,711	11,714	11,85,	11,739	11,635	11,677	11,527	11,370	11,088	11.864	11,479	11,523	11,889	11,851
37	Transportation equipment	112,674	113,390	114,855	116.359	116,052	118,529	113,709	116,791	115,427	113,370	112,218	112,523	114,615	119,055	115,663	114,835	115,085
37.5,0	Darts	89.396	90.025	91, 151	91,178	91,494	92,483	87,207	89,054	87,525	90,003	88,794	89,356	90,287	88,862	87,888	86,869	87,679
37.31	Shipbuilding and military																	
3795	tank vehicles	17,707	17,841	18,416	19,237	19,361	19,503	19,449	19,993	19,732	17,834	17,984	17,994	18,493	26,173	20,133	19,933	19,366
27	Instruments and related products	7,098	7,171	7,378	7,069	7,128	7,362	7,189	7,112	7,034	7,041	7,139	7, 119	7,110	7.058	7,091	7,193	7,23%
2.2	All other durable goods,	4,331	4,410	4,424	4,564	4,697	5, 313	7,80I	4,931	4,931	4,713	4,440	4,720	4,798	4,739	4,997	5,239	5,233
			1	-		-	1	1			1	-						

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24 98" 12.567 10 545 1,634 22.413 2.509 2.422 9,718 14 813 18. 6 3, 34 3, 392 1,341 2,883 6.576 665 25 500 13.137 516,061 Sept 74,299 24,047 12,22 10,905 2,323 4,012 19,100 4480 386 415 554 18 6,156 679 23,569 11,901 68. 3,280 2,231 3,970 174,×81 107,881 A . P. S. 26,251 10,643 11, 178 2,588 1,504 5, 582 24,617 12,566 6.318 24,450 12,485 19,223 1,528 45, 36 10,656 87,485 73,426 14,454 2,319 6, 39h 34, 142 12, 154 1,555 43,572 2,454 2,585 X 77 10,678 87,579 72,710 14,869 2,273 77,464 13.,312 231,863 10,580 87,833 72,67 15,706 6,324 693 23,703 11,824 1,590 2,240 :45,292 188,878 101 48 'P Member productive products Stone class products Class containers and plass products First precise all S. First Contents and other primary metals. And other primary metals. Metal curs. burrels, and Metal curs. burrels, and Mediums. Farm machinery and equipment.
Construction, mining, and
material-handing, equipment.
Metalworking machinery.
General industrial machinery. onstruction materials, supplies, and intermediate products...... ther materials, supplies, and intermediate products...... Nondurable goods industries..... Home goods and apparel
Consumer staples.
Equipment and defense products.
Except automotive.
Automotive equipment. furthle goods industries..... furthle goods with unfilled orders... Engines and turbines..... apital goods industries. 322 332 3331 333-341 351 352 353

See footnotes at end of table.

4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATECORIES, AND SUPPLEMENTARY SERIES -- CONTINUED

							(Millions	Millions of dollars	8)									
					Seasons	Seasonally adjusted	pe						Not	seasonally adjusted	adjusted			
			Monthly	1y			9	Quarterly						Monthly	,			
SIC	Industry	+ 20	4000	4110	feed	:		-				Last 4 months	nths		Last	Cast 4 months a year	3 Vedr ago	
		1982P	1982	1982	1982	1982	1982	1981	1981	1981	Oct., 1982P	Sept. 1982ř	Aug. 1982	July 1982	1981	Sept 1991	Aug. 1981	143
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery	26,709	26,669	26,891	26,834	26,950	27,526	28,142	28,110	27,234	26.373	36,430	26,927	27,378	38,098	27, 464	27 446	22 764
363	industrial apparatus.	4,200	4,221	4,304	4,291	4,376	4,474	2 044	4,710	4,462	4,190	4.184	4,278	4,304	4 750	99 27	4 541	24,540
365	Radio and TV	1.631	1,665	1,629	1,664	1,674	1,799	1,856	1,732	1,549	1.574	1,646	1,714	1,747	1,746	1.15	7.	7
367	Flectronic components	5.577	5.509	5,577	5,520	5,545	5,480	5,823	5,827	5,710	5.521	5,442	5,577	5,633	5,346	5, 410	7, 234	
37	Transportation equipment	6,390	8 468	39,785	94, 339	39,074	38,150	38,237	38,409	37,586	6.536	8, 503	39,745	34, 413	39,115	33,344	0.64.5	37 473
372,6	Arcraft, missiles, and parts	28.812	28,422	27,756	27, 372	26,893	25,681	24,759	24,429	23,852	28.067	-8,139	27,769	27.285	14,774	24,533	24 243	24,15
3795	shipbuilding and military tank vehicles	1,457	1,481	1,610	1,584	1,672	1,909	2,181	2,244	2,255	1.486	1.512	1 113	1.53	2,404	67.00	£:	14
38	Instruments and related	9 mm	×52 7	7 00 1	0 7.33	0 000	0 300	017 0	0000		176.7	3,20	200	0.17	. 2.20			
381-4	Scientific and engineering	489.0	6.618	6,592	0,623	6,600	6,482	6,531	6,473	6,384	065.4	6 545	6,565	5,643	404	5,473	777	, 425
380	Photographic goods		102.2	76717	8871.	7,788	2,405	7.537	2,508	2,405	57.	200	1, 326	2.330	2.430	2 440	1. 7	2 444
39	All other durable goods	14,026	14,302	14,177	14,317	14,272	14,404	14,814	15,141	14,324	13,780	14 075	14,154	14,236	14, 431	14,994	15 365	14 367
2.0	Nondurable goods industries	19.968	19,972		20.178	19.830	20 405	23 400	71 240	21 246	25 092				751	11 441	70 464	21.050
201		1.797	1.769	1,798	1,822	1,803	1,434	1,711	1,840	666.1	2.874	1,716	1,714	1,755	1,855	1 785	1,794	1 37 1
207	Fats and oils	1.151	1.293		1,329	1,381	1,298	2,564	1,501	3,617	1,197					1,121	1,2465	106
203-6,5		12,069	11,862		11,853	11,433	11,778	11,884	12,499	12,434	13,058					13.112	12, 185	11,85
22	Tobacco products	6,279	6,369		4,893	4,697	6.587	7 011	4,088	3,733	2.985					6,013	3 750	\$ 7 7 3
20	pate	8.926	8.831		8,734	8,757	8,321	4,825	8,545	8,239	8 734	770 0				8 69.2	1 4.32	¥ 47 . Y
265	Paperboard containers	2,354	2,295		2,222	2,241	2,340	2 392	3,775	3,166	2,267	2,263	3,535			3 217	7. C.	
264		2,879	1,898		\$06.	2,890	3,370	2,972	2,961	2,881	3,816	7.807				7 40 7	Ċ.	£ .
281.6	Industrial chemicals, except			959,02	20,198	50,973	11. t.d	619,12	11, 334	/16'07	100		383		6	50° 4 64	ž.	7
	pigments	6,230	6,293	6, 158	6,408	6,546	6,763	h, 362	4,874	9.864	6,086	6. L+8	6,357	6,453	6 778	5 725	1 × 2F	2,544
283, 4	rugs, soap, and tolletries Petroleum and coal products	9.245	9.274	6,389	9,220	9,101	10,531	10,544	b, 324 10,810	6,283	9 451	905'4	5, 344 1, 444	1, 152	10,740	H. 124	1 . 044	1,34
30	Rubber and plastics products,	5.816	5.678	5 701	2 86.8	A 04.6	163	308	1,53%	2018	214.5	5.546	2 2 2	278 5	1 16.1	7	-	3
23	All other nondurable goods				2001	20.0		2	101.0	0.00								
31	Industries	14.978	14.793	14,339	14,497	15,055	15,406	15,628	15,015	14,526	14 494	14,809	15,384	15,810	14,807	15,331	1: 137	11,543
Ppre	Ppreliminary. Revised.							-	- Indian	-								

Ediposits and me orders are the totals for the period and are adjusted for trading-day and calcular—nonth variations, unfilled orders and inventories are adjusted for trading-day and calcular—contents are recognises of the separate industries. Conference as to follows.

The supplementary series are recognises of the separate industries and pottery, cuttery, industrial, and partial partial properties are recognises of the separate industries. Conference of a series are adjusted to the previous produces of spiral codes and the defense products to the previous produces of spiral codes and equipment and equipment communication exclange for the code of although the conference of although the profit and realized equipment communication exclanges in the conference of applications are applied to the previous and equipment communication and any account of the produces of although the profit and realized equipment communication and any account of the produces of although the profit and realized equipment communication and any account of the profit and any account of the profit and are accounted to the profit an

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Petrolems and coal products
Rubber and plastics product
All other nondurable goods anufacturing

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

			Pe	ercent chang	ge				Revisions ²	
Item and industry group	M	onth-to-mon	th	Aver	age monthly	rate of ch	ange ¹	Year	Average	monthly
Teen and Industry group		Aug. 1982- Sept. 1982		Third quarter 1982	Second quarter 1982	First quarter 1982	Nov. 1981 through Oct. 1982	ago Oct. 1981	Oct. 1981 through Sept. 1982	Oct. 1977-1981
Shipments:										
All manufacturing industries	-4.1	+0.4	-1.7	-1.8	+0.8	-0.4	-0.8	0.3	0.3	0.2
Durable goods industries	-5.4	-0.9	-2.3	-3.3	+0.3	-0.4	-1.3	0.5	0.4	0.2
Nondurable goods industries	-2.9	+1.7	-1.2	-0.3	+1.3	-0.5	-0.3	0.0	0.4	0.4
Inventories:										
All manufacturing industries	-0.1	-0.7	-0.2	-1.2	-0.6	-0.4	-0.3	0.1	0.1	0.1
New orders:										
All manufacturing industries	-3.9	+1.2	-2.7	-2.4	0.0	-0.1	-0.9	0.4	0.4	0.2
Durable goods industries	-4.7	+0.4	-4.5	-4.6	-1.4	+0.6	-1.6	0.7	0.7	0.5
Nondurable goods industries	-3.2	+1.8	-0.9	~0.2	+1.3	~0.4	-0.3	0.0	0.4	0.3
Unfilled orders:										
Durable goods industries	-0.9	-1.1	-1.4	-3.3	-1.0	-0.3	-0.9	0,1	0.1	0.1

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

²The revisions are the difference between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month,

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	rentoriess	hipments ra	tio	('nfil	led orders-		ratio
Andustry Group	October 1982	September 1982	August 1982	July 1982	October 1982	September 1982	August 1982	July 1982
All manufacturing industries	1.78	1.71	1.73	1.70	3.76	3.63	3.69	3.67
Durable goods industries. Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products.	2.52 1.66 3.08 2.08 3.07 2.40 2.68 2.46	2.39 1.67 2.91 2.00 2.79 2.33 2.47 2.32	2.38 1.71 2.88 1.98 2.93 2.35 2.26 2.41	2.33 1.68 2.90 1.93 2.95 2.22 2.21 2.41	4.65 0.51 2.76 2.91 4.47 4.99 11.54 1.86	4.46 0.52 2.66 2.80 4.04 4.86 11.51 1.77	4.55 0.52 2.65 2.84 4.26 4.82 11.58 1.82	4.49 0.51 2.65 2.83 4.42 4.54 11.14
Nondurable goods industries. Food and kindred products Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rübber and plastics products, n.o.c.	1.12 0.89 3.66 1.53 1.38 1.49 0.54	1.08 0.86 2.97 1.52 1.36 1.41 0.53	1.12 0.91 3.78 1.52 1.34 1.42 0.55	1.11 0.87 4.79 1.58 1.35 1.46 0.52	0.54 (X) (X) (NA) (NA) (X) (X)	0.54 (X) (X) (NA) (NA) (X) (X) (X)	0.52 (X) (X) (NA) (NA) (X) (X)	0.53 (X) (X) (NA) (NA) (X) (X)

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums. farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; delecut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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DEPOSITORY

CURRENT INDUSTRIAL REPORTS

Manufacturers' Shipments, Inventories, and Orders

NOVEMBER 1982

FOR WIRE TRANSMISSION 2:30P.M. E.S.T. MONDAY, JANUARY 3, 1983

U.S. Department of Commerce BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in November increased \$1.1 billion or 0.7 percent from October to \$150.8 billion, the Department of Commerce, Bureau of the Census reported today. This increase followed a 4.1 percent decline in October. Shipments of manufactured goods were up slightly in November, increasing \$0.3 billion or 0.2 percent to \$152.8 billion. Both the new orders and shipments increases in November were attributable to the durable goods sector as activity in the nondurable goods sector showed no change from October. Manufacturers' shipments have now exceeded incoming orders for 16 consecutive months, resulting in a November orders backlog estimate of \$291.1 billion, 11.5 percent below the peak last July of \$328.9 billion.

The book value of manufacturers' inventories in November declined \$2.4 billion or 0.9 percent to \$269.3 billion. Manufacturers' inventories have declined for 11 of the last 12 months. The inventory to shipments ratio was 1.76 in November.

The increase in new orders in November was concentrated in the durable goods sector which was up \$1.0 billion or 1.4 percent from October to \$70.6 billion. New orders for electrical machinery were up \$0.9 billion or 8.2 percent to \$12.0 billion with the largest increase in orders for defense communication equipment. New orders for primary metals were up \$0.6 billion or 7.9 percent to \$7.5 billion. Although this is the largest 1-month increase since a 13.7 percent increase in July 1980, the level is 42 percent below the peak in January 1980 of \$13.0 billion. New orders for transportation equipment were up \$0.2 billion, or 1.5 percent to \$14.5 billion, following 3 consecutive monthly declines. All of the specific categories except motor vehicles and parts had increases. New orders for nonelectrical machinery were down \$0.8 billion or 6.1 percent to \$13.0 billion.

Within the capital goods industries, new orders for nondefense capital goods in November were unchanged at \$20.2 billion. New orders for defense capital goods increased 1.1 percent to \$4.9 billion.

Shipments by durable goods manufacturers increased \$0.3 billion or 0.5 percent to \$72.7 billion, with offsetting movements in some of the specific categories. The largest increase was in shipments of nonelectrical machinery which was up \$0.5 billion or 3.8 percent to \$14.6 billion. Shipments of primary metals declined \$0.3 billion or 4.4 percent to \$7.4 billion, with the nonferrous category accounting for most of the decline. Shipments of transportation equipment were flat at \$15.1 billion, as a decline in the aircraft and parts category was offset by increases in the other component categories.

Shipments of nondurable goods in November at \$80.1 billion were unchanged from October. This resulted from offsetting movements in the specific industry categories. The largest increase was in shipments of chemicals, up \$0.5 billion or 3.9 percent to \$14.1 billion; the largest decrease was in petroleum products shipments which declined \$0.7 billion or 4.1 percent to \$16.6 billion.

The decline in the orders backlog of durable goods manufacturers in November was widespread. A decrease of \$0.7 billion or 0.6 percent in unfilled orders for transportation equipment reflected declines in all categories. The decline of \$0.7 billion or 0.6 percent in the machinery category resulted from a decline in the nonelectrical category that more than offset an increase in the electrical category. The backlog of orders for primary metals showed a small increase of \$0.1 billion or 0.7 percent, the first since July.

The backlog of orders for nondefense capital goods declined \$1.3 billion or 1.0 percent to \$124.7 billion, the seventh consecutive monthly decline. The backlog of orders for defense capital goods declined 0.1 percent to \$84.4 billion.

The book value of manufacturers' inventories at the end of November was valued at \$269.3 billion, down \$2.4 billion or 0.9 percent from October. Durable goods manufacturers accounted for the entire decline as their inventories were reported down \$2.4 billion or 1.3 percent to \$179.5 billion. Virtually all durable goods categories decreased. Inventories of nondurable goods manufacturers, estimated at \$89.9 billion, showed little change from October.

Inventories by stage of fabrication showed declines in November. Raw material inventories decreased 0.6 percent, work in process inventories decreased 0.9 percent, and finished goods inventories 1.2 percent. Since total inventories peaked in November 1981, at \$285.8 billion, the rate of decline in finished goods inventories has been slower than for raw materials and work in process inventories.

The advance report on durable goods for December is scheduled for release on January 21, 1983, and full report is scheduled for release on February 1, 1983.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

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9,11130s		arrivily.	***	: <u>\$</u>	+	175,412		100,000	23 , 45	147,354		Sec.		53 /		10,137	1.284	211, 30		2 × 4 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1		443	12,049	11,618	2,742 46,819 3,6.7	8,582 2,617 3,743
	-			747	,		*	143. Est	13. , 54.	1 12,000	1	1.15		13,17	1	4 4 4 5 5	87.	2001, of 2		14, 447 80, 437 14, 105		1,5%	10,436	24,165	2,513 45,128 3,444 2,747	8,185 2,587 3,801
	lls officered		-	7 1 2 7	_	156,414	141, 3	÷.	7	- r	81,371	17.1		11,24 11,24	14, 74	14 % 1	11,844	0.7,011		21, 77, 4, 647		3,730	3,036	3,873 9,680	14,847 1,218 838	2,549 908 1,311
	er.condly	A		C A A A A A A A A A A A A A A A A A A A	_	1.1,200	142, 180	*1, kov		1	*!, 'll'	17,180		11,160	24, 682	1.1, 48.5	11, '8"	107, 516		27,14. 27,14. 27,271 4,834		433	5,197	3,908	15,402 1,077 1,82	2,828 794 1,225
		"onft.	-	1 48.7F		1 .2 , 4,7 1	147,47	11,111	72, 84,	60, 952	*1.14	11, 18, 11		24,963	23,703	4, 515	11, . 17	67,042		21, 23, 23, 22, 23, 47, 2 4, 42, 42, 4		454	3,065	3,422	14,044 1,017 1,035	2,469
			2	1 482P		11.2,777	137,142	74,1	72, 100 8	51,012	80,10×	17,14,		1 ,702	23,7 4	1, 544.	11,42	116,868		4,638 21,505 4,928		3,72h 429 7 35.0	3,061	3,595	900 14,582 1,083	2,476
			Intoster		10TAE5	All manufacturing industries	excluding transportation	untilled orders	Durat le goods industries	orders	Nondurable goods industries	orders	MARKET CATEGORIES	Home goods and apparel	Equipment and defense products, except automotive	Construction raterials, sapplies,	Other materials specific and	intermediate products	SUPPLEMENTARY SERIES?	Household durable groots indus- tries tries Copital goods industries Nondefense Defense	INDUSTRY GROUPS AND INDUSTRIES	Durable goods industries Stone, clay, and glass products Class containers	Blast furnaces, steel mills,	Fabricated metal products	drums Machinery, except electrical. Engines and turbines. Earn eachinery and equipment.	Construction, mining, and material-handling equipment. Metalworking machinery
			SIC																			32	333-9	34	35 351 352	354

See footnotes at end of table.

Table 1.

							(MILLIONS	or dollar	8)									
				Seaso	Seasonally adjusted	pa						Not	Not seasonally adjusted 1	v adjusted				
			Monthly	hly			Quarterly					Monthly	У				Annual	1
SIC	Industry				4					Last 4 mc	months		Last	4 months	а уеаг адо		hear-ti-date	date
		1982p	1982 ^r	1982	1982	1982	1982	1982	Nov.p	Oct. 1982 ^r	Sept. 1982	Aug. 1982	1981	Oct. 1981	Sept. 1981	Aug. 1981	1387	1981
	INDESTRY GROUPS AND INDESTRIES																	
	Durable goods and industries																	
361,2	Electrical machinery	11,105	11,220	11,452	11,434	34,994	35,228	34,170	11,220	11,708	12,07r	11,131	11,725	11,988	12, 197	11, 45	124,471	124,742
363	distribution equipment and industrial apparatus	1,585	1,556	1,733	1,671	5,135	5,222	5,307	1,574	1,575	1,782	1,61	1,855	1,859	1,947	1,927	18,87	21 479
365	Radio and TV	3,508	3,953	3,732	3,698	1,988	11,352	2,028	3,567	3,955	3,841	3,565	3,525	3, 35	3,105	7 7 X	1,231	7,484
367	Electronic components	2,440	2,288	2,410	2,442	7,351	50,832	7,007	2,445 15,591 8,538	2,391 16,183 9 223	2,538	2,359 14,616	2,441	2,433	2, 2h 17,203	2,352	26,711	21,274
372,6	Aircraft, missiles, and parts		5,778	2,307	5,201	15,814	15,183	15,240	5,593	5,569	5,588	4,822	541	157	786	4-1	38,2 4	50.7%
37.31	Shipbuilding and military tank vehicles		852	451	853	2,733	2,823	2,439	951	87.1	546	824	958	931	48.5	1,000	10,186	10, ***
38 381-4 386	Instruments and related products	3,759 2,182 1,359	3,753 2,137 1,384	4,043 2,465 1,352	3,894 2,320	11,842	11,820	11,028	3,844 2,171 1,451	3,895	2,597	3,873 2,258 1,403	3, 455 2, 369 1,326	4,125 2,505 1,353	4,291	3, 878 2, 970 1, 247	42,807 27,259 15,019	25, 474
39 25	All other durable goods industries.	7,996	7,942	7,803	7,691	23.500	23,449	23,472	7,920	8,046	8,553	8,175	7,788	8,749	078,8	8, 538	87,194	42,47b
20 20 301	Nondurable goods industries Food and kindred products	22,524	22,392	23,258	22,275	18,820	18,145	67,182	23,018	23,207	24,23K	22, 337	22,111	22, 983	23,115	22,484	2+4,343	54. 177.
207	Beverages	2,910	2,846	2,997	2,950	8,918	9,315	4,305	2,754	3,008	3,042	3,145	2,731	2,95	2,796 1,588	2,950	13,477	17,301
203-6,9	E	9,120	9,015	9,417	8,795	3,775	25,663	24 , 474	1,11.3	9,340	10,274	8,575	8,746	4,141	9,735	x	14,0%	100,24
22	Textile mill products.	3,986	4,084	4,195	4,198	12,467	12,423	12,309	4,032	4,292	200,4	4,259	4,14	4,470	288,4	56.7	25,400	1,000
261-3	Pulb, paper, etc	2,709	2,644	2,740	2,679	8,049	7,988	8,444	2,563	2,670	2,734	2,704	2,857	2,683	2,395	1,875	30,481	31,623
264	All other paper products	2,286	2,364	2,210	2,358	1,872	11,743	b, 877	2,141	2,341	2,383	2,467	2,062	2,141	2,18,	e	7	24, 118
28	Chemicals and allied products	14,0/4	13,548	14,397	14,551	43,207	42,482	41,458	13,230	23,194	14,841	13,477	25,340	13,833	1 222	1,17	2,	lr l, 45
283,4	cept pigments Drugs, soap, and toiletries	4,327	4,355	4,545	4,628	13,720	13,589	13,801	4,058	3,960	4,403	4,411	4,549	5,574	4,465	4,972	43,845	56.,02n 40,32
8,8	Petroleum and coal products Rubber and plastics products,	10,54/	17,352	17,431	16,970	52,097	51,458	48,733	10,509	17,048	17,443	17,006	17, 472	18,4,3	15,149	15,517	Ion, L. s	202,204
23	A11 0440 months and and and and and and and and and and			****	3, 370	* 0 * * *	100'01	Tu, Jun	-			700.	0,71,7	*CT'*	# JC 17	7		01.07
31	Industries	11,854	11,546	11,768	11,989	3, ,497	34,209	35,278	12, 72	12,719	12,072	17.554	1+04	1853	1 30.4	L. 1019	129,307	127.14
			1				1		- Property				1				1	

Preliminary.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders are inventories as the wend of the period and are adjusted for calendar-month variations.

The applicance of the separate industry categories as follows flossepole and received the separate industry categories as follows. An adjusted for the separate industry categories as follows.

The applicance of the separate industry categories as follows flossepole durable goods industries—ploswedul furniture, kitchen articles and potery, cutlery, handrools, and hardware, radio and Ti. ophthabite goods, watches, and closes, and risked

anous personal goods, indistries—(expansible to the previous producers' capital goods and the lefonso products (old service) catheorites, and another the manual goods indistries—(expansible to the previous producers' capital good indistries—(expansible to the previous producers') and contained to the contained of the products of the contained of the products of the contained of the contained of the products on defense portions of the contained of the products on defense southern the contained of the products on defense southern the contained of the products on defense outside the products on defense outside the products of the products on defense of the products of the products of the products on defense of the products of t

Table . MAINTED MANTER CHEES, WIN ORDERS FOR INDICTED, MAKET CATHODELES, AND SUPPLIMENTALL SERVES

							Je sucility.	s of jollars	(184)									
				Seasonally	ally adjusted	5 2						Not		seasonally afjusted!	1 1			
			Monthly	hly			quarterly					Monthly	11.				Annual	
SIC	Industry	2000	0.10	4111	-					n to see l	- onths		Last	4 -onths	a vear ago		hear t	-4014
		1985 P	194,	1487	138	148,	143.	, 7 7 7	14×. p	Let r	Seep.	198.	1991	1481	Sep.	44K 1+81	2.4K,	14.84
	TOTALS									-								
	All manufacturing industries	150, 67	143,636	156,166	134, 981	489,134	44.8, 844	467,732	7.47	1 ',1%	141,77	144,54	1.7,44.	167,18.	5	164,478	1,734,745	1,838,7.3
	Manufacturing industries excluding transportation	136,280	155,624	141,338	138,796	4,00,702	112,891	418, 173	134, 18	114, 422	147,736	1 34,873	14.,315	148,471	134,178	148,989	1,514,230	115,050,
	Manufacturing industries with unfilled orders	76,144	75,020	78,297	71.7.1	254,774	134, 536	34	2, 1 to	st. Lin	111,12	73,275,	*	44,944	15x.1	84,985	471,429	463,473
	Durable goods industries	70,569	864, 648	73,266	72,9%,	.69,	Late sails	677164	40,40	7	73,4,2	67,545	76,894	82,456	86,032	79,674	819,809	423,881
	Durable goods with unfilled	58,913	58,148	14,483	19,543	183, 4.	1188,341	18.19	£	82,363	13, 136	11,857	001'59	es, 1 %+	71,586	+7,335	684,258	274,175
	Nondurable goods industries	80,138	80,098	97,400	81, 548	Count has	24., 59.	5 x 1 x 5	7 4, 440	\$1, 458	45,836	× , ×	τ΄ 		34,177	84, 399	889,934	914,836
	Industries with unfilled orders	17,231	16,822	17, 314	17,181	51,237		915,17	11,169	17,545	18,125	17. +1 × 11 ×	16,983	17,813	18,235	17,651	187,069	189,444
	Industries without unfilled orders	12,467	153,276	18, 186	. I	145,, 15	19, ,117	185, 384	. 2, 8.23	. 4,423	11,711	fr., 4.4.3.4	ž.	14,413	3,44.5	0° 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	702,264	725,387
	MARKET CATEGORIES																	
	Home goods and apparel,	10,744	10,772	11,978	30,181	33,258 9.,160	17,071	3.,48r	11,160	31,1986	17,388	12,074	11,232	12, 411	12,574	555	121,607	327,928
	Equipment and defense products, except automotive	9,384	22, 325	11,310	M, 542 III, 928	865,242 35,842	71,153	78,487	91,412	24,413	11,625	18,747	. 5,28K	12,029	7,416	73,681	2°8,924 117,421	381,989
	Construction materials, supplies, and intermediate products	11,075	11,205	11,691	11,429	3.,128	13,479	33,970	10,775	11,85	11,240	1, 1939	11,43-	12,460	966'''1	12,833	120,4	141,730
	Other materials, supplies, and intermediate products	46,503	180,081	68,531	68,201	,06,504	106,858	200,360	56,805	474, 44	68,713	66,951	70,283	74,104	27,151	25,590	753,172	8.0,573
	SUPPLEMENTARY SERIES ²				Ī													
	Household durable goods industries. tries. tries. tries. Capital goods industries. Nondefense.	4,718 25,090 20,214 4,876	4,743 25,004 20,183 4,821	4,850 24,608 20,273 4,335	4,670 24,207 18,893 5,314	14,510 73,821 59,488 14,333	14,280 78,604 62,218 16,386	1-,800 86,30? 65,450 20,851	4,719 24,601 19,514 5,087	27,512 20,871 5,741	5,314, 26,972 20,565 5,507	4,974	4,732 28,536 23,304 5,232	4,976 29,318 23,585 5,733	>,649 31,556 24,684 6,873	5,423 27,047 -2,760	53,625 787,787 227,908 60,775	56,929 317,842 265,690 52,151
	INDUSTRY GROUPS AND INDUSTRIES																	
32 33 331		3,737 7,493 3,080	3,676 6,943 2,795	3,852 7,983 3,351	3,707 8,178 3,749	11,310 24,821 11,099	11,311 25,207 11,300	11,093 25,000 11,642	3,693	3,949	4,110 7,531 2,952	3,882	3,825 9,201 4,682	4,177	4,185	10,799	41,538 89,051 39,418	45,549 124,093 63,099
333-5,9 34 35 351	Norferrous and other primary metal products	3,748 8,318 12,976	3,534 8,297 13,824 1,198	4,010 8,668 13,978	3,765 8,897 13,091 1,051	11,572 26,933 39,945 2,926	11,508 27,783 42,685 3,285	11,073 27,648 44,063 3,397	3,435 7,980 12,830 811	3,625 8,595 13,928 1,422	3,985 9,056 13,833	3,676 8,867 11,009	3,689 8,728 16,675 1,020	4,112 9,774 16,667 1,500	4,323 10,348 17,389 1,567	4,413 9,910 15,552 978	41,452 99,487 153,389 11,792	49,764 113,194 185,591 14,102
353 354 356	Construction, mining, and material-handling equipment. Metalworking machinery	2,422 597 1,037	2,009	2,540 588 1,137	2,160 736 1,032	7,187 2,011 3,292	6,643 2,012 3,271	7,651 1,993 3,894	2,189	2,099	2,508 582 1,060	1,992	3,020	3,071	3,120	3,133	26,041 7,232 12,621	36,816 9,033 16,324

				Seaso	Seasonally adjusted	ted						Not	seasonall	Not seasonally adjusted1	7			
			Monthly	hly			Quarterly					Monthly	1y				Annual	1
SIC	Industry	2	+ 00	S S S S S S S S S S S S S S S S S S S	Anna	111	11	-		Last 4 mc	months		Last	Last 4 months a year	r vear ago		Year-to-date	-date
		1982p	1982r	1982	1982	1982	1982	1982	Nov. 1982	Oct. 1982	Sep. 1982	Aug. 1982	Nov. 1981	0ct. 1981	Sep. 1981	Aug. 1981	1982	1981
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361,2	Electrical machinery Electrical transmission and distribution coultoment and	12,027	11,115	12,025	11,572	35,993	36,101	36,015	11,724	12,127	12,262	11,247	11,729	11,452	12,769	11,761	131,411	130,607
363	industrial apparatus	1,845	1,504	1,639	1,451	3,257	3,086	5,044	1,736	1,533	1,629	1,417	1,849	1,493	1,869	1,954	17,948	20,738
365	Radio and TV	567	787	059		1,872	2,161	2,039	629	538	104	629	662	295	1,024	863	7,016	7,909
366	Communication equipment	4,184	3,723	4,556		13,296	12,932	12,988	3,937	4,476	4,593	3,995	3,713	3,883	4,227	3,607	46,943	40,938
37	Transportation equipment	7,44,41	14,267	14,828		48,427	48,953	49,625	14,644	17,268	16,521	12,524	15,152	18,211	18,031	15,089	17',843	188,204
372,6	Aircraft, missiles, and	5.174	5.108	181.0		14.345	15.193	20.522	816 7	6.739	5.027	3.891	1 6 9	113	7. 101	3.36	928	002 09
3731	tary		-	376	2	1 225	004	000	0000	93	200	33%	000	100	103	200	0.000	11 000
38	Instruments and related	/00	177		20	11941	000,4	****	9000	200	45.2	700	T 1007	1/6	1,100	1,000	7//*0	11,000
	products	3,752	3,691	4,135	3,904	11,886	11,583	11,801	3,731	3,827	4,336	3,883	4,042	4,092	4,189	3,845	+2,653	42,676
39	All other durable goods industries	7,779	7,785	7,797	7,549	23,379	22,831	23,983	7,678	8,348	8,272	8,098	7,541	8,419	8,058	8,517	86,752	65,927

trading-day or calendar-mouth variations.
The supplementary series are regrouplings of the separate industry categories as follows
The supplementary series are regrouplings of the separate industry categories as follows
The supplementary series are regrouplings of the separate industry categories, and pottery, cutlory, handtools, and hardware; household appliances, radio and TV. Optibalance goods, eatthers, and -lower, and massellly. - Amplements and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are adjusted for

neous personal goods.

(Egital goods industries—Comparable to the previous producers* capital goods and equipent and equipent and equipent, so the solution of the configuration

TRALE 3 VALUE OF MANOA HIGHEST INVIDLED RIGHS ON INDISTRA FOUTS, "AFRIT CATHORIES, AND SUPLIESIENTS SPILES

	-			1361		125 12×	212 43	314 45	7. ::		5,276	189 003	17 672	113,336		221 34.2 155 594 67 748		2.273 26.659 17.189	8,202 30,463 74,130 17,013	11,265 6,083
			a vear ago	Sept 1981		103,779	20× 11×	(12,743)	11. 386	_	5 Onn	× × × × × × × × × × × × × × × × × × ×	17 386	111,435		3,853 222, 208 151,777 7),431		2.113 27.511 16.509	7,756 30.194 73 511 17 108	11,116
d3			t + months	1481		3.1.348	. I. 6 4	31 ,642	,		4 421	16× 823	17 018	110,096		3.228 202,644 150,577		26.521	7 355 29.525 72.907 17.284	10,943
v adjusted1	J.	117	Last	1941			4	0.07 823	1 - 16 3 1		- 13x	184 J74	18.454	4.6.		2.83b 221 933 148 58 73.165		25.708 15,469	6,981 28,958 72,726 16,912	5.255
seasonally	Monthly	Monte		A AR		195,827	183,3%	. 8h.85J	1- T.		+, 105	174,433	14,466	47,683		. 999 211 Juh 11.8 604 82 702		21.696 21.463 12.779	6,250 25,003 59,467 15,195	3,005
You			varth.	7 to 12 to 1	-	* - 7		2 2	* 1 48		÷	7	† †	G TR	_	704.185 1.6 968 83.117		1,700 20,684 12,177	5,233 24,181 57,458 15,050	2,760
			last 4	1 1		201,311	178,015	782,244	840,5		5,41	178,688	13,441	95,214		2,406 210,411 125,535 84,876		1,628 20,068 11,977	5,886 23,386 57,182 15,494	2,645
		1		111	*	. 58, 28,	115,925	:74, 56 3 .	7 2		3,281	171,177	13,510	44,314		2,326 8,748 1,3,739 85,048		1,619 20,082 12,020	5,877 22,536 55,945 15,325	5,634 2,527 5.076
		1	-	- 1 - 1 - 1			11 + []	1 618	· 4		ž. T	* * * * * * * * * * * * * * * * * * * *	1, , , [114.694		10.25.		17,693	8.526 30,538 75,021 17,771	10,956
		-			-		1	156,841	El.		70 70 70 71	192 Shr	17.11.3			4,623 153 - 151 1153 - 152 71.650		29.148	8,078 30,170 74,535 17,183	5,742
tollar.	martin la	1111111		141			1	. × · 1 .	1 5 .		1		· · · · · · · · · · · · · · · · · · ·	1,4,1	_	13.919		2.241 26.623 16,113	7,302 29,240 7,627 16,411	10,819 4,870 6,790
dillions of		n L	-	- X		D 1 3	= :	. ** < 1	9 E		7 2 2	190,00	In +17	1114,791		14 1488 14 488 81 405		1 835 23,195 13,679	6,697 28,334 67,595 16,039	3,937
affuste		-		, ,		2. 4.	×1 1×1	An, Abl	9,160	_	1 5.87	1 414	15.15	1 658,66		134, 550 1 134, 230 1		11.723	0,58h 26,384 63,462 15,668	3.332
Seasonally	-	- •		÷ * ;		10.72	4	240, 411	 Z		3,700	1861	l+ 6:1h	98,144		214 - 168 174 - 168 185 - 81		1,684	6,391 25,004 59,703 15,304	6,651 2,961 5,587
		-				, 47, 38H 1	1 to 1 to 2 to 2 to 2 to 2 to 2 to 2 to	нь 701ь	4,1,1		3,556	997	14 5 19	97.350		11,232 11,233 1,7,180 84,557		1, 36 21,913 13,093	54,150 58,276 15,151	6,362 2,755 5,498
	Manager	Month				293, 10.7	180,503	283,964	4,147		1,446	179,112	14,178	46,371		210,440 125,988 84,452		1,692 21,167 12,823	6,106 23,528 58,054 15,332	5,902
				d 1.861		791,091	179,137	181,859	9,23.		3,464	177,863	13,763	96,004		2,498 209,096 1.4,690 84,400		1,704 21,308 12,842	6,259 22,834 56,449 15,241	5,848 2,522 5,138
			Instantey		TOTALS	All canufacturing industries	Manufacturing industries excluding transportation	burable goods industries	Nondurable goods industrites	MARKET CALEGORIES	Hone goods and apparel.	except automotive	Construction materials, supplies, and intermediate products	intermediate products	SUPPLEMENTARY SERIES?	Household durable goods indus- fries. (apital good industries. Nondefense.	INDUSTRY GROUPS AND IND STRIFES	Burable goods industries Stone, clay, and glass Prwary metals	# N	
		-	SIC															32 33 331 331-6.9	351	354

See footnotes at end of table.

Table 3, VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

					Ѕевзопа	Seasonally adjusted	pe						Not	seasonally	Not seasonally adjusted!			
			Monthly	hly				Quarterly						Wonthly	alv.			
SIC	Industry group	Nov.	Oct.	Sept.	Aug.	II		ΛI	111	11		Last 4 m	months		Las	Last 4 months a year aro	a year aro	
		1982 P	1982 F	1987	1985	1982	1987	1981	1981	1981	New 1982P	Oct. 1982	Sept. 1982	Aug. 1982	No.1 1961	0c.t 1381	Sep†	Aug 1981
1	INDUSTRY GROUP AND INDUSTRIES																	
	Durable goods industries Continued Electrical machinery	697,468	55,548	55,654	55,082	54,655	53.78*	51,439	52.028	50,778	896,65	55,465	55, 146	68, 859	51.125	51,121	51 617	51.285
361,2	Electrical transmission and distribution equipment and industrial apparatus		7.427		7,574		5,442		8,906	678.8	7 578	7 416	7.458	7.611	R. 537	5,5,3	2 20 20 20	5 357
	Householl appliances	325	301	331	341	304	323	333	383	429	273	2002	336	364	274	7.	340	417
	Communication equipment		34,846		34,252	~~			29,423	28,239	35,292	34,922	25,475	33.550	567.67	57.67	25,418	28,297
	Heatr wire components		11,687		11, 527				11,635	115.677	11,490	11,523	11 375	11 588	11 420	11 479	11,653	11,889
	Arreraft, missiles, and		89 355		91.151		62, 483	87.207	89.05	87 525	89 291	89 964	88 7 34	89 456	177 88	68 86	00 X	86.869
	tary		17,716	17,841	18,416	19, 361	19.503		19,993		17,649	17,843	17, 984			24.173		19,933
	Instruments and related products	7,101	7,109	7,171	7,078	7,128	7,362	7,189	7 112	7,034	956"9	7,071	7,139	7 113	7,145	, u58	7. 91	7.193
	All other durable goods industries	070.7	4,258	4,416	4,424	4,697	5,313	4.831	4.941	186.4	3,901	4,142	014,1	4.720	765'5	4 7 39	4,397	5209

Revised. Preliminary.

-Simplements and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are of the end of the period and are not adjusted for trading-day

dup of calcidatements variations.

"The supplementary series are reproposed to the somewhat attitudes and pottery, cattery, handtools, and hardware nonsemble mentalized goods industriace doubted furniture. Attitude articles and pottery, cattery, handtools, and hardware nonsemble goods industriace doubtered goods and the defense products (old supplements and appliance). The catter of cattering and appliance are applied to defense the cattering and reprinted companied that and equality of and appliance, are also and appliance, representation doubtered and attering and appliance, representation companied that and reprint of cattering and appliance, are applied to an appliance, and of chance companied and appliance, and of the cattering and appliance are applianced and appliances. The cattering and appliance are applianced and appliances, and appliances are applianced and appliances and appliances. The cattering and appliances are applianced and appliances are applianced and appliances and appliances are applianced and appliances and appliances are applianced and appliances and appliances are applianced and appliances and appliances are applianced and appliances are applianced and appliances and appliances are applianced and appliances are applianced and appliances.

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Night and	-				**				-		,	40 +1			that is	3 11 37 35 35	
198. p 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.05.		- 1	1,48.		. ž.		II.	1	7 m 1	1.6.1	lept.	Aug.	Nox. Lust	1,81	1481	Neg.
26 (34) - 27, 21 - 27, 424				4, 50,	11,25	. 50,00	. 85, E.	×	234,431	*******		1 1830	.39.	177.190	. 11.125	* * * * * * *	, '8, Mis
2, 1, 345 2, 3, 212 32, 312	. 32, 312			14,217	34,044	.41,41	11,	, 43, HI.	. Jr , 130	- 500- 400-	2 × 3 × 5	4,828	733,447	243,670	, 47, 110	241,184	,40,11x
[26,705] [184,887] [184,673] [18	189,073		ã	1 8,48	140,443	14., 16.		14.187.	, , , ×111	\$	* * * * *	187,123	184,844	143,3 (8	14.7,14.8	141,425	240°4
174,468 lols, 1 lb., 793 le	18.,743		12	35,	180, . 84	186,1003	* Cat. RK.	182° . H.	181,123	177.200	17++15	180,760 1	183,110	187,8	18+, 478	18.,576	184,+03
10.575 107,727 108,000 in	It By trans		Ã.	18,83	11 -, 4 - 1	171,	, n	1-1,343	Ir of 10s.	49	11	14. , . 11.	18,42.	1.,,,,,,	171,730	11. 2. ".	100,300
2165 84,877 89,867 H4,681 46	84,581		37	11,752	90,8,6	4011,40	14,7.3	44,723	43,44,4	Th. 7	194 195	84,0tc.	30,182	45,137	44,048	43,852	43, 104
23,130 23,180 71,029	71,029		=,	× 77 .	.1, 1,	· , · · · · · · · · · · · · · · · · · ·	1, 14.	. 1,474	, E, 91 4	ç	, , , , , , , , , , , , , , , , , , ,		1,	11.115	21,018	21,151	21,461
Hore goods and appared. 21,254 21,471 (1,416 I) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0		21,416 1 3,,632 ···.	- ;	1,	21, 138	35,041	33,100	33,37	11,45.	÷ ; ;	33,71+	33,038	21,8tu 32,77	21,854	21,802	33,802	32,363
40+17 (83), 17 APA 1"	17,464		7.	77,618	,	711,715	(b. pare)	75,187	73,200.	76,138	10,436 10,436	75,048	77,361	76,359	75,554	74,429	75,961
10,471 10,886 10,281	20.261		202	065.07	20.33	11.078	175	96	21,800	14,325	14,587	14,845	.0,189	21,427	21,780	22,030	-1,954
1 104,894 1	104,894	-	110	110,361	111,305	115,379	116,613	116,8.1	113,749	107,114	1 7.840	108,.54	110,080	115,705	115,488	115,120	114,882
10,425 111,746 110,028 10,006 885,742 87,771 87,771 87,889 71,387 72,775 73,710 73,476 15,357 15,706 14,889 14,478	10,078 87,579 72,710 14,864		23,4	45.885	10,744 87,343 73,164 14,2.	15,846 86,745 72,937 13,857	11,236 86,515 73,360 13,154	11,0.r 85,423 73,131 12,44.	11,544 82,474 70,821 11,155	10,024 86,404 71,125 15,.74	10,215 87,152 72,134 15,018	10,508 84,810 72,045 14,770	10,822 87,575 73,110 14,565	10,40h 8h,792 73,840 12,402	10,918 86,045 73,558 12,488	10,844 84,407 72,488 12,419	11,103 84,281 71,969 12,310
products 0,388 0,413 ',332 t 0,41 1,432 2,439 1,431 1,	23,970 23,970 11,985		22	6,345, 085, 24,142, 12,154	6,382 678 24,617 12,565	6,744 719 26,056 13,441	6,792 26,250 13,347	25,9,7	6,351 633 24,129 12,779	6,069 675, 22,894 11,433	683 23,316 11,729	6,156 679 23,569 11,901	699 24,047 12,237	6,448 679 26,115 13,339	1,407 987 25,773 13,200	25,576	6,527 668 25,113 12,861
10,+40 10,590	19,590		10,	10,634	10,710	11,145	11,273	11,139	10,416	10,165	10,249	10,315	10,496 19,100	11,19h 19,98h	11,003	10,843	10,738
1,468 1,590 1,713 1,818 42,010 1,818 2,189 2,189 2,189 2,189 2,189 2,189 2,189 2,189 2,189 2,189 2,189 2,189 3,653	1,713 43,010 2,389 2,553			1,555	1,504 44,008 2,520 2,763	1,409	1,318 44,376 2,625 2,935	1,576 43,471 2,672 2,804	1,549 41,799 2,512 2,847	1,255	1,348	1,436 42,548 2,347 2,521	1,480 43,386 2,415 2,554	1,272 43,832 2,675 2,723	1,325	1,341 42,983 2,524 2,554	1,484
10,556 10,605 2,273	10,605		10	2,319	11,134	10,950	10,643	10,044 2,858 4,053	9,543	10,060 2,206 3,882	10,345,2,257,3,994	10,435 2,250 4,013	10,905 2,323 4,012	10,407 2,746 4,112	10,131	9,883	9,762
3,945				-	-	-	-	-	-	-		-	-	-	-		

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--CONTINUED

							(Willions	(Willions of dollars	9)									
					Seasonally	lly adjusted	P						Not	seasonally	y adjusted			
			Monthly	ly			0	Quarterly						Monthly	dy			
SIC	Industry	Moss		0000	Anna	-	j-	1.5	111	5		Last 4 mc	months		Last	4 months	a year ago	
		1982 ^p	1982r	1982	1982	1982	1982	1981	1981	1981	Nov. 1982	0ct.r	Sept.	Aur 1982	Nov. 1981	0c† 1481	Sept 1981	Aug. 1981
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries																	
361.2	Flettrical machinery Flettrical transmission and distribution equipment and	26,041	26,670	26,669	26,891	26,950	27,526	28,142	28,110	27,234	26,127	26, 337	25,430	26,927	28,080	28,098	27,849	27,846
0,10	industrial apparatus	4,202	4,193	4,221	4,304	4,376	4,474	4,506	4,710	4,452	4,146	4,184	4,184	E (2) 7	4,731	4,7 .	0 20 2	4, 43
365	Radio and TV	1,576	1,621	1,601	1,029	1,674	1,799	1,806	1,732	1,549	1,504	1,564	1,040	1,714	1,774	1.740	1,73	1,741
366		9,366	9,289	9,350	9,357	9,334	9,410	9,337	9,241	9,257	2,363	9,290	9,302	9, 550	9,290	4,252	4,188	4,234
37	Transportation equipment	39,997	40,418	40,162	39,785	39,074	38,150	38,237	38,409	37,586	40,280	40,417	40,002	39,795	34, 51	19,11.	35, 344	Dev. 72
371	Notor vehicles and parts	8,086	8,381	8,468	8,500	8,649	8,573	7,226	809'6	9,599	8,317	4,527	8,603	8,676	9,421	9,815	1,761	9,501
372,6	Aircraft, missiles, and parts	28,762	28,810	28,422	27,766	26,893	25,681	24,759	24,429	23,852	28,748	28, n65	28,13,	27,763	25,214	24,778	24,205	24,249
3795	tank vehicles	1,367	1,469	1,481	1,010	1,672	1,909	2,181	2,244	2,255	1,417	1,43	1,512	1,613	2,320	2,409	5.50	2,128
38	Instruments and related	4 301	4, 388		187	2 343	900 0	014 5	XC 5 3	4 17.5	560°h	4, 22.2	562 7	,52 5	200	300	9 9 7	2 618
381-4	Scientific and engineering Photographic goods	2,180	6,635	2,280	2,292	6,600	2,405	2,531	2,508	6,389	5,555	2,149	2,265	2,325	2, 44,5	2,430	h, 428 2, 490	2,471
224	All other durable goods andustries	13,907	13,978	7	14,177	14,272	14,404	14,814	15,141	14,824	13,621	13,734	14,075	14,159	14,710	14,831	14, 494	1 ,065
2.0	Nondurable goods industries Food and kindred products	19,933	116,911		20,212	19,830	20,405	20,400	21,290	21,296	21,117	21,027	21,150	14,756	22,21,	22,134	21,441	20,8ns
201	Weat products	1,788	1,780		1,798	1,803	1,934	1,711	1,840	1,499	3 445)	1,807	1,716	1,714	1,871	1,8,	1,78	1,794
208	Fars and oals	1,231	1,154	1,243	3,498	1,381	1,298	1,403	1,747	1,512	1,494	1,700	900	5,320	1,741	1,474	1,121	1,270
203-6,94		11,826	11,961		12,051	11,433	11,778	11,884	12,499	12,434	12,715	12,942 4 u3b	12,4.5	12,039	13,708	15,40	13,112	12.585
21	Tobacco products	6,346	6,350		6, 595	6,047	6,5/2	7,011	7,008	5,733	060,0	6, 152	1,180	5,364	1,5	(17)	1,003	7
200	Paper and allied products	8,887	8,890		8,748	8,7%	4,922	8,825	75, 14.	×,239	5.22	3,648	5,544	8,175	8,542	×, 4.7	5 6	7, +32
261-3	Pulp, paper, etc	3,653	3,648		0,018	3,576	3,540	3,461	2,275	5,165	5,63	5,607	1,374	3,536	5,470	3, 327	1,217	2.254
262	All other namer containers	2,917	2.887		2,848	2.850	3,070	2,472	2,961	2,8K1	2,348	2,824	2,807	2,840	- Cap - 7	2,900	×	2,875
92.00	Chemicals and allied products.	19,942	20,396		20,050	20,973	21,428	21,615	21,334	20,917	14,673	14,843	14,793	20, 388	21,523	21,14	20,353	20,940
	pigments	6,053	6,250	6,293	6,358	6,546	6,763	5,962	0,870	b,854	> 486	n, 106	9,146	6, 107	F14 '4	6,37%	6,745	1,825
283, 4	Petroleum and coal products	0,276	6,347	6,287	6,389	9,101	10.531	10,344	10,810	11,423	2,24±	20, 204	9,485	487,4	10,621	10,740	11,024	11,044
im	Rubber and plastics products,	7,044	11.00															:
3.3	В.С.С.	5,725	5,803	5,678	5,791	n,04n	0,153	b, 298	6,434	908'9	5,488	. 402	, 544	424	1,280	1,250	2,181	0,217
27	All other nondurable goods	14,944	14,899	14,793	14,939	15,055	15,406	15,528	15,015	14,426	13, 494	14,415	14,804	10,384	14,769	14,8n7	1.,031	1.30
31															-		_	-

Absorpte and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, untilled orders are investoring as a series of period and are adjusted for trading-day and calendaries are trading-day and are against the separate and are trading-day for the period application and are also period application and a posterial are recompanied for the formation articles and pottery, unless, handbooks, and harman a fundamental application and a physical areas and pottery, unless and pottery and pottery and pottery. FRevised. Ppreliminary.

anset lances persons present to the previous producers' oppital goods and the defense products old vertes) categories.

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	198, P	les, r	ept.	1487	111	- *	5 = =	111	1 11 1	148. p	1.5	r.pt.	198.	1441	1241	lept.	1.41
All manufacturine industrie	067, 697	917.17.	.7474		.75.110	r	.45.15.		2		-	7	0. 1	7 7	1 2	7	, r
Durable comes industries	173.638	181.843	18, 79,		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14	7	1-1-1			1.4.4.	12. 4.1	184,111	15, 45,	7,7	185,475] Nu nt. 1
stom clay and glas preducts	r, 588	1,413	15, 15.		1,382	7 7	14, 14,		1.351	1 11 4	[61]	0.10	. 67	P. 44.7		1. 1	
Fabricare Lo talk	18,181	15,650	14, 6		11,593	14,344				17,17	1-, 1			14, 140			11, 111
Nonelectrical machinery	42,125	42,0% b	4 1 h		F	7 . 7		7.5	7 1	1, 10	- 4	, ,	******			1 2	1.
Transportation equipment.	14,497	41,414	. (P.)			58, 15tb	155	23,	1 1 1 1 1				54. '45'	34, 51.	611.15	37. 544	17. 44.3
Instruments and related products	7, 501	18,388	70, 598	1.1.7	1	14,404	1	15.1.1					2 2 2 2 2	11. 11.	× 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	17.7	7 7 7
The same of the sa	104,61	116,61								100	10, 00						
Chemicals an, allies preducts	17,74,	10, 944	180,081		6,473	. T	1,115	.1, 55+	7 7	* * * * * * * * * * * * * * * * * * * *	7 7	14, 74	14, 580	11.6.3	1,12		20. 104
Petroloum and coal products	9,404	7,201	4,7.74		o, kd ·	10,5411	L. , Susa	1,41	11,445	6,74.9	7		657.	11, 401	7.7	11, 11	11.0
Rubber and plastic products n.c.c	5,7.	1 X 1 X 1	5,1174		Fr. 7. 4	5 . 1 . 5	F 1	7	2	4, 1	24.4.7.	; ,	5,67	1000	50,250	14. 31	55 61
WATERIALS AND SUPPLIE																	
							1, 10	3				- 91 - 22	(5)	-	4	4 30	0.0
All sanutacturing industrics	64,343	81.61.4	5 1 1	77.	32,33	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7			r x	24,342		101077	10,134		13,413	7
Durable goods industries	53,625	14,274	554, 71 3	15, 191	25,15.3	17,847	54,461	58, 5.8		23,171	5.,116	54, 136	55.25	54. 45.	100,457	58, 138	77. 55
mil.	7.794	7.437	7.1.4	5,,,,,	* N. N. N. N. N. N. N. N. N. N. N. N. N.	× , 7, 44,	E. 100	2		7 4 4 7 7	2	H, 1 '8	N. 56	×, 436	Y New Y	3,750	x, 50t
Fabricated witals	7,013	7,169	7,11,	7,114	7,51.	7, SHB	1, 7	7,655	2,5.5	6 KIDS	7, 1119	7 1 6	1.1.	7.7.4	1, 2,54	7,855	,
Nonelectrical machinery	10,8+2	11,311	11,154	11, 3,1	11,45*	11,7.	11,588	11,545	11,.99	17,71	11,000 }	11,0 47	11,246	11,447.	11,6.5	11, +30	11,285
Electrical auchinery	12,7%	100	7,433	7, 1.	7,514	100	2, 2, 4,	111111111111111111111111111111111111111	1 1 1 1	7,35	7,5	22	, ,	8,215	7, 15,	7. 3h4	7 7 7
Institution's and related products	10,146	7.799	2, 866	SINK	STR.	1.482	186.8	3. 18.1	s, ola	1	2.757	1.044	1,807	3.000	9,000	3,001	3,037
All other furable goods tagustries	5, 37.	1, 344	5,34	., 41	5,594	5,710	5.4.4	, III.	5.447	5. 45%	CX 7 .	S, 24 4	5,4450	6,158	* 35	b, 1017 ,	0,140
Nondurable goods industries	15,73H	55,437	1008,44	36,448	36,714;	37, 417	38,015 (37,406	27. 174	35,417	35,24.	35,1.9	35, X_h	17, 10 51	37,311	30, 465	35,551
Chemicals and allied products	7,746	7,459	3,1,1	8,114	9,11.	8,164	4,333	N, 695 ;	.;; x	7, 276	7,7+5	7,456	3,0511	4,133	9,161	05.14	0,274
Petrolour and coal products	ngr	11:23	. , 57.	155.	665	775	* 55	X 7 6 .	7 7 7		544	0.00	1/201	707	6161	C 60 * .	
All other nendurable goods industries	1,494	87047	23.409	1.91	24.174	14.51.	. 4.534		18,543	21, 415	1,394	588	13,578	. 4. 354	20,100	13,746	23,584
SS 4. NO. I HOOM																	
			100000		400 0000	200		20.00				000 1000	21	000	200 000	3, 013	25.1 00
All manufacturing industrics	155,241	45.44.64	1/6,66	101.105	700'05	901 1/2	17 1166	70,034	0 0 0	13,430	606175	201.07	10.10	77,927	000,00	0 0 0	01 0 10
Durable goods industries	79,806	55,267	90, 179	80,458	31,304	81,124	1000	2	36,35,	74,.33	NO. 0 100	79,454	30,739	00,440	156	760	970
motode	4 180	0.7.0	065 6	4 SAR	. 86u	10.678	10 837	10.604	4.755	4 186	- 5 2 7	9.50.8	9.736	1 583,	10.5.6	10.498,	10.455
Fabricated metals	6, 345	6,607	10,430	6,834	7,101	7, 30.	7,354	7,254	7,170	1,147	6,519	6,7,7	4,884	7,217	7,271	7,159	7,243
Nonelectrical machinery	17,113	17,458	17,501	17,78.	18,73.	18,473	19,204	19,14,	18,517	17,153	17,34	17, 573	17,781	14,482	19,18	19,031	19,056
Electrical machinery	13,304	13,309	13,354	13,496	13,643	13,054	13,871	13,784	13,5.	13,289	13,308	15,319	13,534	13,874	13,892	13,736	13,656
Transportation equipment	25,358	13,53	3 - 1	14,593	16.10	25,404	201,63	6.109	13,074	25,730	175,00	4.07	4,110	740.7	4,000	4,101	4,066
All other durable goods industries	3,034	1,054	5,123	3,153	3,169	5,203	3,301	3,.86	3, 34,	555	5,133	5,139	3,177	5,171	3,.58	3, 563	3,344
Wondurable goods industrie	14,735	14,857	15,19.	15,5,4	15,555	15,624	10,196	10,.13	16,161	14,202	14,959	15,230	15,545	16,135	16,037	16,233	16,258
Chemicals and allied products	3,421	3,374	3,416	3,539	3,038	5,441	5,42.9	5,515	3,489	3, 36.3	3,354	3,384	3,514	3,466	3,510	77.7	3,490
Petroleum and coal products	7,266	2,340	:,575	2,6.4	2,554	2,800	3,026	2,944	1,951	.,356	77.00	0.530	2,614	2,792	2,702	2,585	1961
Rubber and plastic products, n.e.c	7.870	7.455	7.969	8,116]	8,094	8.17.	1,189	8,566	8,558	7.804	8,962	8,086	8,131	8,673	8,677	8,680	8,628
FINISHED GOODS														_			
All manufacturing industries	85 171	86 170	86,406	86,676	.85,899	88,492	87,654	86,863	84,001	84.017	84.675	84,986	85,927	87,129	86,323	85,459	84,855
	410,00	10000		2 000				100			100 301	030	17 112	7.5 7.03	0000	102 70	D57 77
Stone clay and class neededs	1 212	3 264	1771/17	3,050	1,239	3.755	3.387	3, 345	3.071	3.026	3.039	3.076	3,188	3,188	3,116	3,183	3,217
Primary metals.	5,998	6,101	6,241	6,306	6,255	6,684	6,524	6,573	6,032	5,849	5,866	5,9,8	6,058	6,536	6,379	6,252	6,134
Fabricated metals	098.4	906**	5,082	5,218	5,260	5,158	5,165	5,187	5,050	4,742	4,747	4,843	5,069	5,060	5,043	4,950	5,445
Nonelectrical machinery	13,970	14,098	14,345	14,470	14,318	13,991	13,547	12,711	12,023	13,544	13,639	14,138	14,309	12,703	12,523	12,516	12,272
Electrical machinery	5,683	5,837	5,882	5,883	5,793	5,970	5,976	5,924	5,575	5,508	5,665	5,713	5,814	5,986	5,873	5,749	5,711
Transportation equipment	165 5	4,808	4,736	4,667	4,556	4,577	4,529	4.276	4,166	065.4	4,727	4,654	4,666	2 200	097.5	117	2 315
Instruments and related products	5,501	5,530	2,502	5.614	5.509	5,491	19977	5.742	5,313	5,200	5,212	5,467	5,532	5,281	5,340	5,484	5,575
Conducable and deducted and on	39 122	10 171	007 00	20 775	30 557	21 067	117 07	202 07	750 07	39.261	39.366	38 706	38.811	41.637	41.300	40.753	40.396
Chemicals and allied products	8,775	9,063	8,735	9,001	9,223	9,818	9,853	9,424	9,206	8,731	8,769	8,453	8,823	9,924	9,524	9,117	9,176
Petroleum and coal products	4,674	4,660	4,327	4,208	4,148	5,279	4,860	5,468	5,653	7 187	2,717	4,557	4,398	5,347	5,419	5,744	5,552
Rubber and plastics products, n.e.c	23,142	23,063	2,548	2,572	22,433	23,207	23,137	22,994	22,638	23,277	23,467	23,287	23,120	23,683	23,657	23,231	22,989
			Total Control		200 600												

r. FRevised.

All other nemes.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Posed on sessentily adjusted data)

			Pe	ercent chan	ge				Revisions2	
	N	lonth-to-mon	th	Aver	age monthly	rate of ch	ange ¹	Year	Averies	wonthly
Item and industry group		Sept.1982- Oct. 198.		Third quarter 1982	Second quarter 1982	First quarter 1982	Dec. 1981 through Nov. 1982	Nov. 1981	Nov. 1981 through Oct. 1982	Nov. 1977-1981
Shipments:										
All manufacturing industries	+0	-4.3	+0.4	-0.5	+0.8	-0.4	-0.5	(1.3	0.3	0
Durable goods industries	+0.5	-5.5	-0.9	-1.0	+0.3	-0.4	-0.8	0.5	0.3	0.2
Nondurable goods industries	0.0	-3.1	+1.7	0.0	+1.3	-0.5	-0.1	0.0	0.4	0.4
Inventories:										
All manufacturing industries	-0.9	-0.3	-0.7	-0.3	-0.6	-0.4	-0.5	0.1	0.1	0.1
New orders:			ĺ							
All manufacturing industries	+0.7	-4.1	+1.2	-0.2	0.0	+0.1	-0.5	(1.4	0.3	
Durable goods industries	+1.4	-5.0	+0.4	-0.6	-1.4	+0.6	-0.9	0.7	0.7	6.5
Nondurable goods industries	+0.1	-3.4	+1.8	+0.2	+1.3	-0.4	-0.1	0.0	(1,-+	0.3
Unfilled orders:										
Durable goods industries	-0.7	-1.0	~1.1	-1.2	-1.0	-0.3	-0.8	0.1	0.1	C.I

⁻ Represents /ero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

(Miseu	On Deadone	illy adjuste	o data,					
Industry group	Inv	entories==s	hipments ra	t 10	Unfil:		hipment : i backlog)	atio ¹
mountry group	November 1982	October 1982	September 1982	August 198.	November 1982	October 1982	September 1982	August 1982
All manufacturing industries	1.76	1.78	1.71	1.73	3.72	3.77	3.63	3.69
Durable goods industries. Stone, clay, and glass product. Primary metals. Fabricated metals.	2.47 1.71 3.15 2.02	2.51 1.72 3.09 2.09	2.39 1.67 2.91 2.00	2.38 1.71 2.88 1.98	4.62 0.52 2.90 2.82	4.66 0.52 2.75 2.93	4.46 0.52 2.66 2.80	4.55 0.52 2.65 2.84
Machinery, except electrical Electrical machinery. Transportation equipment. Instruments and related products.	2.87 2.40 2.64 2.47	3.03 2.38 2.69 2.50	2.79 2.33 2.47 2.32	2.93 2.35 2.26 2.41	4.18 5.08 11.53 1.89	4.46 4.95 11.58 1.89	4.04 4.86 11.51 1.77	4.26 4.82 11.58 1.82
Nondurable goods industries. Food and kindred products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and products. Rubber and plastics products.	1.12 0.88 4.12 1.59 1.36 1.42 0.59	1,12 0,89 3,66 1,55 1,36 1,51 0,53	1.08 0.86 2.97 1.52 1.36 1.41 0.53	1.12 0.91 3.78 1.52 1.34 1.42 0.55	0.54 (\) (\) (\A) (\A) (\A) (\)	0+54 (\) (\) (\A) (\A) (\A) (\)	(\) (\) (\) (\) (\) (\) (\) (\) (\) (\)	(),52 (\) (\) (NA) (NA) (\) (\)

⁽NA) Not available.

^{*}Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.

*The revisions are the differences betweenthe month-to-month percent changes of the prelaminary and final estimates. The monthly averages are the staple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Preliminary.

^rRevised. (X) Not applicable.

^{**}Excludes the following industries with no unfilled orders: Wood and lumber products, glass continuers; metal cam, larrets, and frues. Fair machinery and equipment; motor vehicle assembly operation; other transportation equipment, foods and related products, tokacco. ppixel one related products to gliding paper; discret paper ind board; chemicals; perfolems and coal products, und rubber and plastice products, needs.

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CURRENT INDUSTRIAL REPORTS

3-1(82)-12

BUREAU OF THE CENSUS

Manufacturers' Shipments, Inventories, and Orders

DECEMBER 1982

M3-1 (82)-12

FOR WIRE TRANSMISSION 2:00 P.M. E.S.T. TUESDAY, FEBRUARY 1, 1983

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in December increased \$7.3 billion or 4.8 percent to \$157.6 billion the Department of Commerce, Bureau of the Census reported today. This increase was due to large orders in the defense capital goods sector. Excluding that category, December new orders were down slightly from November by 0.1 percent. New orders for manufactured goods for all of 1982 totaled \$1,863.4 billion, 6.4 percent below 1981. Excluding defense orders, new orders for manufactured goods for the year totaled \$1,789.4 billion,

7.4 percent below 1981.

Shipments of manufactured goods in December declined \$0.9 billion or 0.6 percent from November to \$151.4 billion. This is the third consecutive monthly decline and the eighth for the year. Manufacturers' shipments for all of 1982 totaled \$1,884.7 billion, down 5.5 percent from 1981. The value of the orders backlog held by manufacturers increased in December \$6.2 billion or 2.1 percent to \$297.3 billion. This is the first monthly increase in the series since July 1981 when the backlog was \$328.9 billion. The December increase was due to the increase in defense orders. Excluding the defense orders backlog, unfilled orders in December declined 0.6 percent from November and 16.1 percent from December 1981.

The book value of manufacturers' inventories decreased in December \$2.6 billion or 1.0 percent to \$266.7 billion. Except for a 0.2 percent increase last February, inventories have been declining since November 1981 when they were valued 7.2 percent higher at \$285.8 billion. The inventory to shipments ratio for December was 1.76, and for November 1.77. The ratio for December 1981 was 1.77.

The surge in new orders in December, caused by an increase in orders for defense capital goods, mostly affected the transportation equipment industry. There orders increased \$7.0 billion or 48 percent to \$21.5 billion; in addition to the increase in defense orders for aircraft, aircraft parts and shipbuilding.

the motor vehicle and parts industry also increased this month. New orders for nonelectrical machinery were up in December \$1.1 billion or 8.8 percent to \$14.1 billion, due to an increase in the office and computing machine category. Orders for electrical machinery were up \$0.5 billion or 4.0 percent to \$12.7 billion due to an increase in the defense communication equipment category. New orders in the primary metals industry declined in December, as steel orders dropped \$0.5 billion or 17.6 percent to \$2.5 billion, following a 9.3 percent increase last month.

Shipments within the major industry groups in December, in both the durable and nondurable goods sectors, showed a mixed pattern of change. Primary metals and transportation equipment showed the largest increases while nonelectrical machinery, food products, and petroleum products showed the biggest declines. For the year, durable goods shipments were estimated at \$917.8 billion, down 8.3 percent from 1981, while nondurable goods shipments were estimated at \$966.9 billion; down 2.7 percent from 1981.

The increase in the value of manufacturers' unfilled orders in December of 2.1 percent was due mostly to the increase in the orders backlog for defense capital goods of \$7.4 billion or 8.7 percent to \$92.0 billion. Unfilled orders for nondefense capital goods declined \$0.6 billion or 0.5 percent to \$124.1 billion. The nondefense backlog has been declining generally since its peak in January 1981 when the value was 27 percent higher at \$157.0 billion.

The decline in the book value of inventories in December was widespread through the industries and affected all stages of fabrication: raw materials were down 0.9 percent, work in process was down 0.7 percent, and finished goods were down 1.3 percent.

The advance report on durable goods for January is scheduled for release on February 23, 1983, and full report is scheduled for release on March 3, 1983.

The estimates for December are generally subject to greater revisions than other months. Revisions are attributable to corrections to early estimates by companies and to the lower than normal response rates, as reporting is delayed by year end closing of records. For example, based on data from January 1977 through December 1981, the average monthly revision to durable goods new orders was 1.1 percent; for January through November the rate was 1.0 percent, while the average December change was 1.7 percent.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, \$1.50 per copy, \$1.80.0 per year.

TROLY 1. AALTS OF VAN BA TIMBER' SHIPMENTS, NO INDIRERS, MARKET CATEGORIES, AN STERINGTON SPRIES

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footnotes at end of table.

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				Seasor	Seasonally adjusted	ed						Not	Not seasonally adjusted 1	y adjusted	1			
			Mon	tonthly			Quarterly					Monthly	Ly				Annual	
SIC	Industry									Last 4 mc	months		Last	4 months	а уеаг адо			
		Dec., 1962P	Nov. 1982	1982	Sept.	1982P	1987	1185	Dec.	Nov.	0ct. 1982	Sept.	Dec. 1381	Nov.	0c t., 1941	Stpt.	140,	1881
	INDESTRY GROUPS AND INDESTRIBS																	
	Durable goods and industries																	
361,2	Electrical machinery,	11,160	11,163	11,220	11,452	33,543	34,994	35,228	11,048	11,281	11,708	1.,07b	11,125	11,725	11,988	17, 347	137,780	137,306
363	industrial apparatus		1,578	1,556	1,733	3,101	5,135	5,777	1,569	1,567	1,575	1,782	1,747	1,835	1,834	1,947	20,441	13,216
365	fadı and IV		5.28	3.953	3.732	1,050	1,988	2,095	584	3,620	3.450	3,841	3,596	3,5,5	794	3,516	7,577	9,671
367	Electronic components	2,416	2,425	2,.88	16,292	7,129	7,351	7,465	2,295	15,548	16,143	2,538	15,645	16,194	17,219	2,5.6	28,990	28,588
371	Notor vehicles and parts		8,082	7,473	9,568	24,42	31,504	30, 138	7,459	8,535	6,223	67C*6	7,353	11+6.4	10,134	9,365	109,050	114,872
3/2,6	Aircraft, missiles, and parts	5,719	5,5,7	5,778	5,307	17,024	15,81+	11,183	9,00,0	2,584	695"5	5,548	66719	1,591	5,157	× 7 " ()	٠٩, 316	1,739
37.31		897	096	95.7	951	2,709	2,793	2,823	575	147	8,1	695	1, 148	958	9 51	485	11,127	11,604
381-4	Instruments and related products	3,707	3,765	1,753	2, day 3	11,28,	11,842	11,820	3,789	3,853	3,895	2,597	2,464	3,955	4,135	4,241	44,405	47,527
38h 24	Photographic goods	1,273	1,372	1,384	1,352	670*7	+90-1-	4,340	1,736	1,445	1,467	1,40	1,390	1,300	1, 15.1	1,473	16,329	15,933
35	all other durable goods	7,734	8,025	7,942	7,803	23,700	73,000	23,449	7,044	7,450	8,046	8,553	7,130	7,788	8,749	8,870	94,258	99,585
20	Vondurable goods industries Food and kindred products	1.4	22,339	22,392	25,268	66,723	18,820	68,635	22,158	22,830	23,207	860	21,562	1111	2,983	25, 915	271,363	40,124
201	Beverages		2,808	7,077	6,403	8,421	8,418	9,315	2,509	2,850	3,008	3,042	2,541	2,731	556".	2,796	35,862	13,+85
207		1,404	1,316	1,237	9,417	3,457	27,555	76,663	9,189	1,334	9,340	10,27.	1,550	1,523	7,141	4,735	108,19.	198,430
53			1,081	1,207	1,511	3,599	3,775	3,636	1,343	1,103	1,260	2,1,0	1,162	1,144	1,111	1,135	E 17. 77	13,000
1.87	Paper and allied products		6,486	615,0	1774	19,440	19,519	19,234	5,918	6,278	2 . 4 ×	6,684	6,139	P 347th	7	6,359	78,1114	74,484
261-3	Pulp, paper, etc		1,698	2,864	1,536	7,965	8,009 4,578	7,988	2,432	1,440	1,587	1,587	1,372	1,557	1,64	1,74	18,000	18,781
264	All other paper products		2,307	364	2,216	6,993	1,872	6,793	.,123	181,2	1,341	2,383	2,179	110,400	7.	.,185	17,008	7++10.
281,6	Chemicals and allied products. Industrial chemicals, ex-		14,003	13,548	14,197	41,408	43,207	42,482	13,130	13,103	13.16.	+	100 001	4 5, 540	100.00		10.4	6 7 9 6 7 7
200	cept prements		4,388	4,356	4,545	13,310	13,720	13,589	1,400	4, L4	4,138	1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4,705	9+5+4	+,755	5,473	24, +08	60,730
2000	Petroleus and coal products	15,731	15,467	17,352	17,-31	47,550	52,097	51,465	15,926	16,429	17,198	17,443	18,067	17,972	18,404	18,199	201,869	220,324
3	Diet Comment and presents products	3,225	3,473	3,483	3,05+	10,131	11,051	10,831	2,90b	3,264	3,199	3,778	5,314	3,515	4,134	+1.17+	45,581	765,94
37.3	All other nondurable goods	1., 111	11,848	11,546	11,758	35,505	35,497	34,209	11,209	12,564	1.,719	1,67,	10,548	12,404	1., 453	12,563	140,508	137,733

reduced or calculations.
The supplementary series are abounding of the separate industry categories as follow.
The supplementary series are abounding of the separate industry categories as follow.
The supplementary series are abounded furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances; radio and TV. Sphihalaric goods, eatithes, and clocks and inscella-**Appenents and monoredress are the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for Ppreliminary.

Capital pools industries—Comparable to the previous producers' capital poods and the defense products (old series) catayorios.

(Equital pools industries—Comparable to the previous producers' capital pools and the comparable to the product of the confeders of industries and an analysis of the confeders of industries and comparable to the confeders of industries of

Toole 2. ARLY OF GAMPHOTORIS' NEW PROBES POR PAPERTY CAPACITY, MARKET CATHOLOGY, AND STREETEN CORTIS.

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Part Part					Season	ally adjust	5-4						YOU		v adjusted				
Table Part				Sont	hlv			Marterly					Ponth	14				Anta	al
The contract of the contract o	ž	Industry									~1	Shring 8		Cast	- spits	1 mag L			
			.3ec 1+8.2P	You. 1982't	.982 .982	1982	11 1982P	E 24	1861	Tec. L+3.2P		14.4	Sept Less	- (Kr.)	77	Oct.	sept 1481	1.82	187
Minimate around patients with the state of t		FOTALS																	
			1,7,622	150,362	969 6m2		+ > 7 7 4	464, 134		1 54. 114		117, 180		3.6	In Paris		172 249	2 t 1 2 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,44,12
			136,081	135,743	135,429					I so that	I 54,, 44	134 422	145, 35	139, 14,	.4.7, 313		154, 178	, 587, day	1,784 701
Particular control Particular Particul		Manufacturing infustries with unfilled before.	5 ., I	70.263						7 7 7 7	, ,	y iii	41.14.1	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;			17.8.		., 344, 813
			14,121	711, 6, 117								74, 22,	124.1	14 381	74, 894		46, 332		245, 242
Participation Participatio			67,130	18,176	58, 198						0.00	52, 31 3	. 3 3:	n4, 423	65, 140		2,386		838, 447
Projective at the unitable 1,1,111 1,1,2,2 1,1,2,2 1,1,2,2 1,1,2,3 1,1,3,3 1,1,3,3 1,1,3,3 1,1,3,3 1,1,3,3 1,1,3,3 1,1,3,3 1,1,3,3 1,1,3			78,443	70.70	860, 038			27 '47 Z		75. 42	74.545	841,488	53, 836		80,571		Sto 177		495,406
		Industries with unfilled	17,311	1,,47	16 822	17 31+ 1		.1, 337	5 74	11.10.	30 74 73 6	17,545			. 6. 443	17 813		2 + 342	205,865
Wildle Control 13. Wildle Control 13. Control		Industries without infilled orders	61,5%.	62.168	1.3.276					45 34	, Tr. 3 a	E 27			13 57			124,171	787, 035
December Construction Construc		MARKET CATEGORIES																	
Particular and defense products, (1) 201 (1) 2.50 (1) 2.510 (1) 2.			10,892	10,683	14, 367					*77 30.1 %	11.1 m							130.524	136, 193
Construction and attentials, weight from the construction and attentials, weight from the construction and attentials, weight from the construction and attentials, weight from the construction and attentials, weight from the construction and attentials, weight from the construction and attentials weight from the construction and attentials and the prints and attential weight from the construction and attential weight weight from the construction and attential weight weight from the construction and attential weight weight from the construction and attential weight weight from the construction and attential weight weight from the construction and attential weight weight from the construction and attential weight weight from the construction and attential weight weight weight from the construction and attential weight weight weight weight from the construction and attential weight weight weight weight from the construction and attential weight weight weight from the construction and attential weight weight weight from the construction and attential weight weight weight weight from the construction and attential weight weight weight weight weight weight from the construction and attential weight w		Equipment and defense products, except automotive	24,174	21.2888 21.24								24 413						24.,343	308, 341 134 890
Supplementation and according to the control of t		Construction materials, supplies, and intermediate products,	11,200	10,87,			33,2 m	3 . 128 .		10,347	It .6t.	11 865		10, 320	11,434				152, 050
Suppliagrative Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Strates Suppliarity Suppliarity Strates Suppliarity		Other additions supplies, and intermediate products,	66,144	bb, 331			1.48.51.				26 d. 4.5	61.434		73,672					+11,244
Household divinishe goods fundamentary and states of the s		SUPPLEMENTARY SPRIES ²	-														-		
1,71		Household durable goods indus- tries. (apital goods industries. Von befonse.	33,080 20,583 12,447	20,173 20,173 5,041	4, 743 25, 654 20, 193 4, 821	24, 85 - 24, 868 20, 273 4, 335	14,062 33,348 60,434 22,464		24.280 24.25 24.25 24.25 24.25	4,121 54,786 21,603 13,177	14,434	5,140 17,612 24,471	5, 315, 20, 565 30, 567	4.192 29.234 23.036 5.199				57,744 322,743 248,571 74,168	61,120 347,076 288,725 58,354
Operator in the probability of the probability		INDUSTRY GROUPS AND INDUSTRIES											-						
**Strate Proposal and other Prinary 1,742 1,749 1,346 4,310 11,005 11,548 1,471 12,835 1,418 1,549 1,549 1,419 1,4	2 5 5 5	Durable goods industries Stone, clay, and glass. Primary metals. Blast furnaces, steel mills.		3,715 7,466 3,056	3, 576	3,852			11, 311 25, 207 11, 300	3,323	3,672	3,349	4 110 7,531 2,952		3,825		4. 185 10. 463 5. 140	46.521	48,955 133.894 68,406
Consertation, mining, and construction, mini	50.00	Nonterpous and other primary metal products Fabricated metal products Wachinery, except electrical Engines and turbines		3,729 6,186 12,970 910	3, 534 8, 297 13,824 1, 198	4, 310 8, 568 13, 978 924	24,463 24,463 40,405 3,037	11.572 26,933 39.945 2,926	11, 508 27, 783 42, 685 3, 285	3,728 8,091 14,771	3,416 7,853 12,825 762	3,625 H,595 13,928 1,422	3,985 9,056 13,833	3,837 8,829 16,853	3, 689 8, 728 16, 675 1 020	4.112 9.774 16.667 1.500	4.323 10.348 17.389 1.567	45,101 107,451 168,155 12,665	53,631 122,023 202,444 15,006
	56	Construction, mining, and material-handling equipment. Metalworking machinery		2,391	2,009	2,540 588 1,137	6,230	7,187 2,011 3,292		1,622	2,160	.; J99	2,508	3 149	3, 920	3, 071	3.120	27.83- 7.813 13,802	39,964 9,512 17,700

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATHGORIES. AND SUPPLEMENTARY SERIES -CONTINUED (Millions of dollars)

		Annual		1981			141,836				28,824		06,145	12,162	-7,696	99,908
		An		1982			1+3,427	13,484			24,22	*	67,686	13.0~	10,401	43,483
			0	hept 1981			12, 769	1 859	1, 924	4, 227	2,260		7,001	1,183	4, 189	8,658
	rd1		а чеаг ако	Uct. 1991			11,452	1,493	567	3,883	2, 289		6, 131	971	4,092	8,491
	Not seasonally adjusted		t 4 months a vear	Nov. 1981			11, 729	1.849	6652	3,713	2,382		4,973	1.004	4,042	7,541
	ot seasona	hly	Last	Dec. 1981			11.230	1,72			-		5,945	273	4.021	6.979
	No	Monthly		Sept. 1982			12.262	1,629					5,027	456	4,336	8,272
			+ months	Uct. 1982			12,127	1,533	538	4,470	2.544		6, 739	730	3.827	8,348
			Tast +	Nov. 1982r			11.667	1.718	663	4,061	2,382	1	4, 338	25.9	3.804	7,593
2 /				Dec. 1982P			12,353	1.554	607	4,944	2,476	1	7,810	5,375	3,735	6,816
(Sittions of dollars)			-	1982			36, 101	4, 524	2,161	12,932	7, 328		15, 193	2,680	11.583	22,831
SHOTTTIC)		Quarterly	111	1982			35,993	4,771	1,872	13, 296	7,029		14,345	1,275	11,886	23, 379
	pe		11	1982P			35,993	5,018	1,670	12,859	7,716		17,467	7,008	11,167	23,128
	Seasonally adjusted		Sent.	1982			12,025	1,639	959	4,550	14.828		4, 181	376	4, 135	7 797
	Season	1.y	000	1982		-	11.115	1,504	787	3, 723	14.267		5,108	727	3.691	7, 785
		Wonthly	NO.N.	1982r			12,193	1,828	597	4,308	2,412		5,193	942	3,826	7,684
			Dec.	1982P			12,685	1,686	583	4,828	2,722	4	7,166	5,339	3,650	7,659
			Industry		INDUSTRY GROUPS AND INDUSTRIES	Ourable goods industries	Electrical machinery Electrical transmission and distribution equipment and	undustrial apparatus	Radio and TV.	Communication equipment	Electronic components	Arreraft, missiles, and	Shipbuilding and military	tank vehicles	products	All other durable goods industries
			SIC			<u> </u>	361,2	26.1	365	306	367	372,6	37.31	3795		35 55

Ppreliminary, Revised.

Supercis and see, orders are the totals for the period and are adjusted for trading-day and rate adjusted for trading-day and rate and parations, unfilled orders and inventories are as of the end of the period and are not adjusted for reduced Ago realested to regroup may be a partial to principle as the principle and a partial and a

Capital cool indistries--Commission to the previous producers' capital gools and the lefense products (old series) categories.

**Sender's experience, overpredictated (asculation for a series) and a series of the

chillions of follows

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			20.00	Noute la			1	, 135°°° 11.	Ì					Van Man V	1v		and received	
215	The state of the s	-										7 4 16	* * * *		13.1	1 2 3 D 1 C 1	1 14.35 353	
		* *** * ***	H. W.	796.	. 38	- ¥.		- <u>T</u>	- <u>;</u>	- į́	1		. 9		18	=- ·	1.00	÷ .
	t																	
	MI canalact name and estates	17,5 5	·11,11.5	1,43., 7	1 4 2 4 7 4 3	-	115,131	· ·	14.7.48	1.1.	ř. 1	411, **.	. 11. 11.	1	, , , , , , , , , , , , , , , , , , ,	÷ ;	<i>*</i>	;
	Manuforfulling to districts excluding transportation	124, 63	174, 14	,85, 501		1	1.34	j	:	5 1		17 , 550	· .	734 755	1+7	* · · · · · · · · · · · · · · · · · · ·	\$.	· ·
	buards on state and states	. 47,74	41,44.1	,83, 46,	n. 1 . oc.	4. H	Se 3. 147		314.54.	Y	1 2 1 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	110,171,	Į.	8, 1841	136,311	11, 411	**,	*
	you benefit about a but the control of	9, 300	51.13	2		474.7	6,84		:		·,1.	· ·	r v	£	7 7 7 7 7 7	10,153	* , 6.	5
	MARIT CALEMBERS																	
	there, only and uparel,, (on all of the transfer of the tr	7	, ,	:	2	~	;	:	1	ć	5, 3,	Ī			3.7	· ·	=======================================	:
	except authorities, a constant	1415, 1716	, x, .	21,17	18.00							1	* * * * * * * * * * * * * * * * * * * *		1	*	120,41	7
	ometricition externals, supplies,	13, 44	15, 4	14,18		1777					:	- 1	7, 40	* * * * * * * * * * * * * * * * * * * *	4	1666 17	<u>.</u> .	
	other intertals, supplies, and interved are products,	17,00	18,48.	40, 571	17,35	· · · · ·	10.	110.7	<i>*</i>	11 1. 1 12	Ī.	., , ,	4814		1-18, 352	47.150	- T.	11.2 4.50
	SCHOOLSMAN SCHOOL ST																	
	Household larable pools in his tries (applial pools unbestries). Nondeltass	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Application of the second of t		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# # T = =		3, 15 -15 5					20 80 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	145,014	535 127, 433 128 703 73, 105	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	3,653
	INDUSTRIA GROUPS AND INL , THE				_												•	
32 33 331	Duraule goods industries Stone, clar, and plass Fri any estable Hilast furnaces, steel tills	1,089 20,004 1,184	1,889	1,5%, 1,167 12,813	1,736	1.7	5.145	15. 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	112		*:1:		# # 2	1,700 ;	26, 2113 26, 204 26, 114	25,748	11.5.5	1115 C
33-6,4- 34 55 351		7 4 4 5	1,373 36,491 16,38	9, Lun 23, 3,8 58, 33+ 15, 332	24,15, 24,15, 24,276 10,151	6, 584 53, 45. [5, 564	28.334 57.545 15.034	2 4 5 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	5 . 17 5 . 17 14	7,27) à : 3 : = =		57.438 57.438 15.438	7,142 28,470 71,887 10,501	2,48, 7, 7,4	7,335	7 756 30, 190 73, 511 17 108
35.3 354 356	Construction, sining, and material-handling equipment. Welakorking machinery General industrial nachinery.	5, 34.7	5,806 .,506 5,142	5,902	0, 36. 1, 755 5, 498	7, 362	9,331	10,819 4,870 1974	11, 4, 4	10,495 1,495 0,000 d		, the state of the	5 6, 2	5, 184	10,711	5,255 5,255 5,755	5,518.0	11,116 5,753 5,753

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(Millions of dollars)

							-			-		-	-					
					Seasons	Seasonally adjusted	pa						Not	seasonall	Wot seasonally adds to d ¹			
			Mor	Monthly				Quarterly						Monthly	nlı			
SIC	Industry group			100		:	-	5	Ξ	=		Last 4 months	nonthy		las	Last 4 wonths a vear aro	a vear aro	
		1982P	1982r	1982	1985	1982	1982	1981	1981	1981	Dec. 1982P	1982r	uet. 1982	24pt. 196.	Det.	Nov. 1981	1981	N pr.
	INDUSTRI GROUP AND INDUSTRIES-																	
	Purable goods industries																	
36	Electrical machinery	58,102	\$6,577	55,548	55,654	54, 655	53,784	51,939	52,028	50,778	57, 575	56,070	55,465	55,040	51,230	511,125	51, 121	51.657
	distribution equipment and	7,734	7,476	7,427	7,479	7,844	8,442	8,705	8,906	8,849	7,55.	7,317	7,410	7,458	8,510	8.537	5,5,3	X, 8859
30.5	Household appliances		353	301		304	323	333	383	429	667	167	785	330	288	- 74	7.67	384
34.5	Radio and TV		309		309	426	359	349	526	414	311	288	260	795	551	324	423	650
300	Communication equipment	36,651	35,494		35,077	33,268	31.690	29,697	29,423	28,239	36,504	15, 363	34,922	34,400	29, 584	29,433	5465	SE 7 97
367	Heatrune components		11,674	11,687	11,393	11,714	11,852	11,739	11,635	11,677	11,657	11,476	114, 302	11, 370	11,422	115.613	11.479	115.063
37.2 5	Ameraft atsales, and																	
	parts	695,06	170,68	89,355	90,025	91,494	92,483	87,207	89,054	87,525	91, JSt	ж9,312	89.404	88.794	87,690	55.744	88 88	87 488
37.31		22,142	17,700	17,716	17,841	14,361	14, 503	19, 449	19,993	19,732	17	1 ,78H	17.8+3	17.484	19,446	. 0, . 19	5,1,3,	. 155
35	Instruments and related	7,05.	7,168	7,109	7,171	7.1.8	7,362	7, 189	7,112	7,034	6,968	7,423	7,071	7,139	7,114	7,1+5	7,058	7, 141
33.5	All other durable goods	3,837	3,917	4,258	4,416	4,697	5, 313	4,801	4,931	4,931	1,559	5,787	4, 142	4,440	t, 541	167.1	1,739	6+47
											A				1.000		Name of Street, or other Designation of the last	

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Sapposents and nee orders are the rotals for the period and are adjusted for tradume-fav and calcular-south variations, infilled by by and received for tradime-fav and source for tradimeday or caledar-month variations.
The supportance properties of the separate industry categories as follows.
The supportance goves are recoupance of the separate industries and pottery, cather, hantoole, and harkare, nowsholl appliance, ratio and the separate industries does not the separate forces.

(apital gook injustre--coparable to the nection projects capital gooks and the detence projects extract and are interested appliances, ratio and TV, and electronic components, TV members projects establishing from machiners and equipment, are rail and marked projects and appliances projects and appliability and inspirate a

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		Wichits.	hly			30	OutFirely						The stable				
Industry	3				:						1	ant the		1	of a monthly a year	3 % 10 5	
	d. 30	100	ť		= 1	- 1	: 1	:	= +	3	i,		11.7	- = = = = = = = = = = = = = = = = = = =	j.	: 1	15
POINTS																	
All manufacturing industries	. 611, 1814	(* 11 s. s.	1.	1.	Ē.	· .	,	•		413,734	26.24.2		Y	5	·	; ;	7. 1.
Mond of the spottation.	175,64.3	4114	.0,			5 .	5	•		23, 13	6, 31.	,	, ,	5		; ;†	7
ontilled orders	18,,4,1	lan, at	134,38	144,50	127	14	144,75	· ·	7	141,7 4	183,444	· .	14	77.	146.5.8	21.31.5	100
formula goods andustrates	177,683	173,5.4	141,5	1	, r			7 	, ,	174,414	177,111	7	<i>i</i>	14. ×[,	
orders	165,937	110., 29	1	l:	1		*			1-1,-1	les, el.	,	7	17. 7.1	<i>i</i>	1 .: c o	1
Nondurable goods industries	43,03	5 21 9 3 3	* * * * *	[+ · · · · · · · · · · · · · · · · · ·	* '	7.	:	j	**	4 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 ×	44	, , ,	÷	7	is 137	7	250 11
orders.	306,0.	3, 3	. 1, 1, 0	7 .1.		- E		7.	21811	. 1, 11.	50, 557	; ;	÷ 5.	21.12	71 114	21 013	21 151
MARRIE CALTOOLIES																	
Home goods and apparel	11,081	1, 171	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1.14	7. 2. 2. 4. 3. 5.	100	1	* ÷	7 7	55,14	14,47	12	: 3	7 57	7.2	50.434	44
Except actions products (XCO) actions two	71 ,1 5.	77,77.3	0.8 x 1	7 7	7.2	A -	1.5		* ' ₊	31,1, 10 20 21 21 21 21 21 21 21 21 21 21 21 21 21	7, 4	÷ ;	- 3	1 C	7.3	3 5	, .
construction materials, supplies, and intermediate products	19,540	105 003		9	1			Y Y	, ,	19,149	1415		*	5			: 8
Other materials, supplies, and intermediate products	1.04, 597	138,534	1 10,6.	7	111, 00.		11. 11	1		14,35	11,7,11	2 /				-	115 120
ST PPHARMAN STATE																	
Houseword durable goals in los- trics. Applial greats industries. Vondefense.	15,35. 86,668 71,16.	13,305 87,518 71,665 18,351	1.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	12,4 % 87,5 fg 72,7 fg 14,85 f	1.00	\$ 5 E \$	1, = \$.1	257	107-	16, 21. 85, 76,2 70,436. 13,6	4,902 86,639 71,403 15,75	三百百五 三百五五 三百五五	5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	24 44 7 2 3 4 5 7 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	13 X 400 14 X 400 14 X 400 15 X 400 16 X 16 X 16 X 16 X 16 X 16 X 16 X 16 X	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12.52
INDISTRA GROUPS AND INDISTRIES																	
Incrable gowls industries Stone, clay, ind glass products Glass containers. Frienty metals.	7,196	6,361 640 75,107	7, 41 s	. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3,12,8	7 5	2 7 2	3 7 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, t. 12. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	140,4 1843 1414	150	000,4	7 665 7 115	h 40°	4. 2. 5. 5.63 25
	11,133	11,465	11,843	11, 45	12, 86		7.7.	14,148	2.7.4	77.11	11,419	7.	14.11	13,707	. 1.334	13 200	12 103
Fabricated metal products.	9,885	18,085	18,682	10, 5an 14,05n	17, 10	11, 145	20,208	20,334	4 77	4,796	10,100	15,275	10,315	14,803	17,47,	2 044	675 C.
Machinery, except electrical. Figures and furbines. Farm anchinery and equipment.	41,004	1,463	2,380	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	2, 504 2, 708 2, 720	2077 2087 2087	= = = = = = = = = = = = = = = = = = =	1,57 1,57 1,672 2,864 2,864	1,544 41,744	25.15 25.25 20.15 20.15 20.15	1,254	1.4.2.5.5 8.5.5.5.5 8.6.5.5.5 8.6.5.5 8.6.5.5 8.6.5 8 8.6.5 8 8.6.5 8 8.6.5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1,456 42,548 2,347 2,521	1,174	45 425 45 452 5 452 5 453 5 br>6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4111	14, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15
construction, maintain, and machenal abanding equipment. Metalworking, machinery General industrial machinery.	9,853 2,114 4,032	10,139	10,556 2,266 4,064	13,80 2,273 4, 465	2,423	10, 450 2, 588 4, 038	10, 54.3	10,044 858 4,053	3, 424	9,794 2,788 3,972	10,078	10,345	10 435 2.250 4.013	10, 590 2, 715 4, 023	10,407	10 131 2 696 4 124	400

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							SHOTTING	01 0001010										
					Seasonally	lly adjusted							Not	t seasonally	ly adjusted			
			Monthly	У			no.	Quarterly						Monthly	aly			
SIC	Industry											Last 4 m	months		Last	t a souths	a year aro	
		1982P	1982r	1982 .	Sept.	1982	1982	1981	1111	11861	Dec. 1982P	Now. 1982	0ct.	Sept.	Dec. 1451	1941	Oct.	Srpt.
	INDUSTRY CROUPS AND INICSTRIES-																	
	Durable goods industries																	
51.2	Flectrical machinery	26,502	20,745	26,670	26,669	26,750	27,526	28,142	28,110	27,234	25,824	26,230	24,337	75,430	25.45	24, 140	, F. 138	57° 474
	distribution equipment and		4.188	101 7	100.7	71. 7	4 4.74	4 566	017. 4	C 4m 7	3.977	4.132	186	281	2005 7	î,	3,6 3	4
53	Household appliances	1,808	1,795	1,830	1,831	1,886	1,895	2,044	2,050	1,951	1,727	1,673	1,726	1,732	12	- E ::	100	1 434
5 4	Radio and TV		1,551	1,621	1,565	1,674	1,799	1,866	1,732	1,549	1,463	1,479	1,564	1, 146	34	1,774	49. 7	1, 11,
23	Hectronic components		5,649	5,591	5,509	5,545	5,680	5,823	5,827	5,710	5,435	5,514	5,535	5,492	5,741	2 480	1.6	5,470
2.2	Transportation equipment		8.096	40,418	40,162	39,074	38, 150	38,237	38,409	37,686	8.750	40,339	40,617	40, 302	37,551	34 525	34 115	35,344
4.27	Arcraft, arsales, and parts		18,759	28,810	26,422	26,893	25,681	24,759	24,429	23,852	. 5,713	78,765	24,645	28,134	1	3 2 2		24, 203
731	Shipbuilding and military		1.402	242	1 481	1 6.77	202	2 181	3 366	2 266	1.459	1.455	1 244	1 613	- 4	463 6	2	770
								,						***				
21	products	9,231	9,289	9,388	86° 6	9, 393	4,399	9,610	9.528	9,372	8,933	4,081	4,222	4, 32, 4	4, 245	9,358	9 374	~ 1 c c c c c c c c c c c c c c c c c c
	Phytographic goods	2,195	2,197	2,265	2,280	1,288	2,435	2,517	2,50%	2,405	2,037	86017	2,194	2 3.52	, S	2 34	3 7 7	1 4
	All other durible goods	13,699	13,767	13,978	14,202	14,272	14,404	14,814	15,141	14,824	13,438	13,479	13,732	14,075	14,548	14 710	14,331	14 434
_	Nonderable goods industries		19.9.4	14 411	14 470	20	20 2.05	211.400	01, 10	39.	0.64.	21.130	201 107	0.150	131	316 66	30 17.	-
-	West products	1,749	1,782	1,780	1,703	1,803	1,934	1,711	1.940	1,499	1,737	1,858	1,807	1.7	1.4.7	12	1.35	17
8 5	Buverages		5,423	3,388	1,421	3,579	9,619	3,664	3,740	3,517	5,545	5,423	1,439	3,383	. 713	5/15	3 /24	7 7 7
3 6.9	All other foods		11,879	11,961	11,862	11,433	11,778	11,884	12,499	12,434	12,377	17,770	12,442	12,455	12,432	14,208	13,415	15,11.
	Tobacco products		4,456	4,417	4,492	4,597	4,572	10,,01	4,088	3, 733	4,739	4,537	467 7	4,469	,7 ·	Ę,	25.77	\$ 2[1 · 2
	Paper and allied products		8,880	2,330	8.831	3.757	8,921,	8,825	8,545	8,234	8,702	8.718	X, 5, 43	7 . 15U	7 2		5.475	7 5
1 3	Palp, paper, etc		3,043	3,648	1,638	3,576	3,540	3,461	3,275	3,166	19545	3,61)	3,637	3,574	3,446	1,4,71	5 327	3.213
	Paperboard containers		2,315	2,355	2,295	2,291	2, 312	2,392	2,309	2,192	952.4	2,253	2.267	2,264	2.3	2 377	24.4	n
†	Chemicals and allied products		20,065	20, 346	20,272	20.478	31 428	21.525	21.332	20,417	19.716	19.794	15.50	14.743	7 2	15	21 148	
31 6	Industrial chemicals, except																	
7 60	pigments	5,938	6,103	6,250	25.00	546	6,763	5,98.2	6,376	6,364	2,877	0,336	106	1.143	57.	10.4	5. 2. 4	
7	Petroleum and coal products		792 0	0.00	4.274	4,101	10,531	10.544	10,574	11.423	0,170	0,030	40.404	4 455	10 573	11 4.11		700
	Rubber and plasta: s products.										1004							
	B.P.C.	5,681	5,688	5,303	5,678	7 O. C	6,153	6,248	4,434	6, 308	5,626	5,453	, h.d.)	775	1.6.	243	6.2.3	Ÿ.
	All other nondurable goods industries	14,687	14,790	14,899	14,793	15,055	15,40n	15,628	15,015	14,626	13,924	13,851	14,415	14, 4 19	14 2,74	14,764	1+ 40,	15.531
PPre	Pereliminary, Freysed,												1	-				

Shipmans and new orders are the totals for the perion and are agreeted for trading-day and calendar-month variations, untilled orders on incontains are as as at the end of trading-day and calendar-month variations, untilled orders or incontains are as as at the end of trading-day and calendar-month variations, untilled orders or incontains are as a few and are agreeded for trading-day and calendar-month variations. inselve or calendar-wouth variations. The separate industry categories as follows:
The substitutions are recovered to the separate industry categories and potents, handrouts, and hardware household appliances into and D., opthalite costs, arishs, and loss on the substitutions are recovered to the substitutions of the substitutions and potential formations and potential formations.

Figure 3 with mery everpt electrical level date in a set and face predicts old scribes circuits, whither the set and IN, and the form a set and the se

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		1	1 7										* 21 4	15+	3 355 C	11.75	1.7.748	3.0%	52.31. 8,18.1		24. 1. 4						3, 258					86, 373	3.11h	5.043	5,873	4,460	5,3+0	9.524	23, 45.7	
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		. 14	5 (4)		ř.	7 ~	1 1 1	37 553	4 4	;	£ 4.	-						£ \$				47.330	51,375	444	7,954	13, 32, 1	3,245	15, 24		4, 313		2.50	3.251	5, 132	13.265	4,+13	5,323	4,833	2, 598	
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	-	141	Pregp	16.00, 1.85		1 -	10.00	11,11	11,11	11.78	57.	14, 12	1. 1. 1. 1.		7	. P		rá :		7, Obs.	23, 411	6.00 2.0	71, 81	X F. A	6, 31.	13, 25	1 1 1 1	14,621	- C	1,121 7,916		84, 523	45, 382 5, In 3	7, 850 4, 648	13,641	4,1185	25.4.2	13,941	2,445	20,00
		To be to	to manufacture of the state of	All action of the transfer of the second	tree clay on the broken	A sectal		har politation of tallie end	Institute out and autological formation of the control of the cont	that sale are all to brother conservations		Wil other conducable page to actual	All canal counting for a tiles	mabl goe is in islate	Stone clay, ind j'd) s product	Nonelectrical staffs	Pan-pertation spulpagnt	Instruments and related product	ndurable goods troustates			WORK IN PROFESS	rable goods industries.	Stone, clay and glass products.	Fabricated setuds.	Sheet and anothers	Instruments and related presents	nourable goods industries		Rubber and plastics products, n.e.c	FINISHED GOODS	All manufacturing industries	stane, clay, and glass product	Prinary metals	Nonelectrical machinery	Transportation equipment	Instituted and related products	Chemicals and allied products	Petroleus and coal prolucts	

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data

				Percent cha	nge				Revision ²	
Item and industry group	М	onth-to-mo	nth	Aver	age monthly	rate of ch	ange 1	Year	Average	monthly
Tem and Industry group			Sept. 1982- Oct. 1982	Fourth quarter 1982	Third quarter 1982	Second quarter 1982	Jan. 1982- through Dec. 1982	ago Dec. 1981	Dec. 1981 through Nov. 1982	Dec. 1977- 1981
Shipments:										
All manufacturing industries	-0.6	-0.1	-4.3	-1.7	-0.5	+0.8	-0.4	0.4	0.3	0.7
Durable goods industries	-0.1	+0.5	-5.5	-1.7	-1.0	+0.3	-0.7	0.2	0.3	0.8
Nondurable goods industries	-1.1	-0.6	-3.1	-1.6	0.0	+1.3	-0.2	0.5	0.4	0.5
Inventories:										
All manufacturing industries	-1.0	-0.9	-0.3	-0.7	-0.3	-0.6	-0.5	0.3	0.1	0.3
New orders:										
All manufacturing industries	+4.8	+0.4	-4.1	+0.3	-0.2	0.0	+0.1	0.5	0.3	0.7
Durable goods industries	+11.5	+1.4	-5.0	+2.4	0.n	-1.4	+0.2	0.5	0.6	0.9
Nondurable goods industries	-1.1	-0.4	-3,4	-1.6	+0.2	+1.3	-0.1	0.5	0.4	0.4
Unfilled orders:										
Durable goods industries	+2.2	-0.7	-1.0	+0.1	-1.2	-1.0	-0.6	0.0	0.1	0.1

⁻ Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inv	entoriess	upments ra	t10	Unfil	led orders-		ratio1
Albust 1, Kronip	December 1982	November 1982	October 1982	September 1982	December 1982	November 1982	October 1982	September 1982
All manufacturing industries	1.76	1.77	1.78	1.71	3.80	3.72	3.77	3,63
Durable goods industries	2.45	2,47	2.51	2,34	4.72	4.61	4.66	4,46
Stone, clay, and glass products	1.66	1.72	1.72	1.67	0.51	J.52	0.52	0.52
Primary metals	2.94	3.16	3.09	2.91	2.72	2.91	2.75	2.66
Fabricated metals	2.00	1.99	2.09	2,00	2.77	2.75	2.93	2,80
Machinery, except electrical	2.88	2.88	3.03	2.79	4.25	4.20	4.46	4.04
Electrical machinery	2.37	2.40	2.38	2.33	5.21	5.07	4.95	4.86
Transportation equipment	2.64	2.65	2.69	2.47	11.89	11.55	11.58	11,51
Instruments and related products	2.45	2.47	2.50	2.32	1.87	1.90	1.89	1.77
Nondurable goods industries	1.13	1,13	1.12	1.08	0.55	0.54	0.54	0,54
Food and kindred products	0.91	0.89	0.89	0.86	(7)	(7)	(X)	(X)
Tobacco products	3.38	4.12	3.66	2.97	(7)	(7)	(X)	(7)
Textile mill products	1.54	1.60	1.55	1.52	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.38	1.37	1.36	1.36	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.42	1.43	1.51	1.41	(X)	(7)	(X)	(Z)
Petroleum and coal products	0.59	0,59	0.53	0.53	(7)	(7)	(X)	(7)
Rubber and plastics products, n.e.c	1.76	1.66	1.67	1.55	(X)	(X)	(X)	(7)

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.
²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month,

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums, farm metalized products; and drums assembly operation; other transportation equipment; foods and related products; tobacco; appared and related products; and plastics products, and related products; and plastics products, and can related products; and plastics products, and can related products.

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